

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

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North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-23650-1

Client Project/Site: White Engine

For:

Ohio EPA CO

4675 Homer Ohio Lane

Groveport, Ohio 43123

Attn: Ms. Victoria Sigler

Denise Pohl

Authorized for release by:

5/13/2013 12:18:53 PM

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Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Method Summary	6
Sample Summary	7
Detection Summary	8
Client Sample Results	15
Surrogate Summary	97
QC Sample Results	99
QC Association Summary	115
Lab Chronicle	117
Certification Summary	124
Chain of Custody	125

Definitions/Glossary

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Glossary

Abbreviation

These commonly used abbreviations may or may not be present in this report.

□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

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14

Case Narrative

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Job ID: 240-23650-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Ohio EPA CO

Project: White Engine

Report Number: 240-23650-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

TestAmerica utilizes USEPA approved methods, where applicable, in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated and were analyzed in accordance with Ohio Voluntary Action Program protocols, where applicable. This report may contain sample results between the MDL and RL. Results below the RL are not certified under the Ohio Voluntary Action Program.

A summary of QC data for these analyses is included at the back of the report.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 04/25/2013; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 1.7 and 2.6 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples CDFMW-1 (240-23650-1), CDFMW-2 (240-23650-2), CDFMW-19 (240-23650-3), CDFMW-3 (240-23650-4), CDFMW-18 (240-23650-5), CDFMW-4 (240-23650-6), MW-36 (240-23650-7), CDFMW-14 (240-23650-8), MW-36D (240-23650-9), CDFMW-9 (240-23650-10), MW-6 (240-23650-11), MW-29 (240-23650-12), MW-33 (240-23650-13), CDFMW-22 (240-23650-14), CDFMW-10 (240-23650-15), CDFMW-16 (240-23650-16), CDFMW-11 (240-23650-17), CDFMW-23 (240-23650-18), CDFMW-21 (240-23650-19), CDFMW-7 (240-23650-20), CDFMW-21D (240-23650-21), FW-9 (240-23650-22), MW-19 (240-23650-23), MW-45 (240-23650-24), MW-43 (240-23650-25), MW-35 (240-23650-26), CDFMW-20 (240-23650-27), MW-14 (240-23650-28), MW-23 (240-23650-29), MW-22 (240-23650-30), MW-38 (240-23650-31), MW-13 (240-23650-32), MW-34 (240-23650-33), CDFMW-12 (240-23650-34), MW-44 (240-23650-35), MW-5 (240-23650-36), MW-5D (240-23650-37), AMBIENT (240-23650-38), EB1-OEPA (240-23650-39), EB2-IE (240-23650-40) and TRIP BLANK (240-23650-41) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 04/30/2013, 05/02/2013 and 05/03/2013.

Case Narrative

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Job ID: 240-23650-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

Methylene Chloride was detected in method blank MB 240-84108/5 at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Carbon disulfide was detected in method blank MB 240-84108/5 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

Sample MW-19 (240-23650-23)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Method(s) 8260B: The method blank for batch 84108 contained Methylene chloride above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

No other difficulties were encountered during the VOCs analyses.

All other quality control parameters were within the acceptance limits.

SEMOVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples CDFMW-22 (240-23650-14), CDFMW-10 (240-23650-15), CDFMW-11 (240-23650-17) and CDFMW-7 (240-23650-20) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/29/2013 and analyzed on 05/02/2013.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

2,4,6-Tribromophenol (Surr) and 2-Fluorophenol (Surr) failed the surrogate recovery criteria low for CDFMW-11 (240-23650-17). Refer to the QC report for details.

Sample CDFMW-11 (240-23650-17)[50X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Method(s) 8270C: The following sample(s) was diluted due to the nature of the sample matrix: CDFMW-11 (240-23650-17). Elevated reporting limits (RLs) are provided.

Method(s) 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 83983. 3520C 8270C.

No other difficulties were encountered during the SVOCS analyses.

All other quality control parameters were within the acceptance limits.

Method Summary

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

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Sample Summary

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-23650-1	CDFMW-1	Water	04/22/13 13:55	04/25/13 11:00
240-23650-2	CDFMW-2	Water	04/22/13 11:55	04/25/13 11:00
240-23650-3	CDFMW-19	Water	04/22/13 13:50	04/25/13 11:00
240-23650-4	CDFMW-3	Water	04/22/13 16:00	04/25/13 11:00
240-23650-5	CDFMW-18	Water	04/22/13 15:00	04/25/13 11:00
240-23650-6	CDFMW-4	Water	04/22/13 15:05	04/25/13 11:00
240-23650-7	MW-36	Water	04/22/13 18:00	04/25/13 11:00
240-23650-8	CDFMW-14	Water	04/22/13 16:15	04/25/13 11:00
240-23650-9	MW-36D	Water	04/22/13 18:00	04/25/13 11:00
240-23650-10	CDFMW-9	Water	04/22/13 17:20	04/25/13 11:00
240-23650-11	MW-6	Water	04/23/13 10:00	04/25/13 11:00
240-23650-12	MW-29	Water	04/23/13 09:40	04/25/13 11:00
240-23650-13	MW-33	Water	04/22/13 18:25	04/25/13 11:00
240-23650-14	CDFMW-22	Water	04/23/13 10:55	04/25/13 11:00
240-23650-15	CDFMW-10	Water	04/23/13 11:10	04/25/13 11:00
240-23650-16	CDFMW-16	Water	04/23/13 15:50	04/25/13 11:00
240-23650-17	CDFMW-11	Water	04/23/13 14:15	04/25/13 11:00
240-23650-18	CDFMW-23	Water	04/23/13 12:30	04/25/13 11:00
240-23650-19	CDFMW-21	Water	04/23/13 15:15	04/25/13 11:00
240-23650-20	CDFMW-7	Water	04/23/13 12:25	04/25/13 11:00
240-23650-21	CDFMW-21D	Water	04/23/13 15:15	04/25/13 11:00
240-23650-22	FW-9	Water	04/24/13 15:40	04/25/13 11:00
240-23650-23	MW-19	Water	04/24/13 12:40	04/25/13 11:00
240-23650-24	MW-45	Water	04/24/13 11:05	04/25/13 11:00
240-23650-25	MW-43	Water	04/24/13 09:45	04/25/13 11:00
240-23650-26	MW-35	Water	04/23/13 17:50	04/25/13 11:00
240-23650-27	CDFMW-20	Water	04/23/13 16:40	04/25/13 11:00
240-23650-28	MW-14	Water	04/24/13 12:30	04/25/13 11:00
240-23650-29	MW-23	Water	04/25/13 09:30	04/25/13 11:00
240-23650-30	MW-22	Water	04/25/13 09:35	04/25/13 11:00
240-23650-31	MW-38	Water	04/24/13 15:30	04/25/13 11:00
240-23650-32	MW-13	Water	04/24/13 17:35	04/25/13 11:00
240-23650-33	MW-34	Water	04/23/13 18:10	04/25/13 11:00
240-23650-34	CDFMW-12	Water	04/23/13 16:40	04/25/13 11:00
240-23650-35	MW-44	Water	04/24/13 10:05	04/25/13 11:00
240-23650-36	MW-5	Water	04/24/13 11:15	04/25/13 11:00
240-23650-37	MW-5D	Water	04/24/13 11:15	04/25/13 11:00
240-23650-38	AMBIENT	Water	04/24/13 10:00	04/25/13 11:00
240-23650-39	EB1-OEPA	Water	04/24/13 09:30	04/25/13 11:00
240-23650-40	EB2-IE	Water	04/24/13 09:50	04/25/13 11:00
240-23650-41	TRIP BLANK	Water	04/22/13 00:00	04/25/13 11:00

Detection Summary

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-1

Lab Sample ID: 240-23650-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.1	J	10	1.1	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	1.1		1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	2.3		1.0	0.15	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.3		1.0	0.19	ug/L	1		8260B	Total/NA
Vinyl chloride	0.71	J	1.0	0.22	ug/L	1		8260B	Total/NA

Client Sample ID: CDFMW-2

Lab Sample ID: 240-23650-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.13	J	1.0	0.13	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	20		1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	1.2		1.0	0.15	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.45	J	1.0	0.19	ug/L	1		8260B	Total/NA
Trichloroethene	1.3		1.0	0.17	ug/L	1		8260B	Total/NA
Vinyl chloride	0.57	J	1.0	0.22	ug/L	1		8260B	Total/NA

Client Sample ID: CDFMW-19

Lab Sample ID: 240-23650-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.6	J	10	1.1	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	0.53	J	1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	1.9		1.0	0.15	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.82	J	1.0	0.19	ug/L	1		8260B	Total/NA
Vinyl chloride	0.64	J	1.0	0.22	ug/L	1		8260B	Total/NA

Client Sample ID: CDFMW-3

Lab Sample ID: 240-23650-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.6	J	10	1.1	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	3.1		1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	1.6		1.0	0.15	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.60	J	1.0	0.19	ug/L	1		8260B	Total/NA
Trichloroethene	5.9		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: CDFMW-18

Lab Sample ID: 240-23650-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.4	J	10	1.1	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	0.51	J	1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	1.5		1.0	0.15	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.34	J	1.0	0.19	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	0.51	J	1.0	0.22	ug/L	1		8260B	Total/NA
Vinyl chloride	0.32	J	1.0	0.22	ug/L	1		8260B	Total/NA

Client Sample ID: CDFMW-4

Lab Sample ID: 240-23650-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.3	J	10	1.1	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	0.49	J	1.0	0.15	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-36

Lab Sample ID: 240-23650-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.8	J	10	1.1	ug/L	1		8260B	Total/NA
Benzene	0.47	J	1.0	0.13	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	2.3		1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	1.5		1.0	0.15	ug/L	1		8260B	Total/NA
Isopropylbenzene	0.37	J	1.0	0.13	ug/L	1		8260B	Total/NA
Trichloroethene	0.32	J	1.0	0.17	ug/L	1		8260B	Total/NA
Vinyl chloride	0.42	J	1.0	0.22	ug/L	1		8260B	Total/NA
Xylenes, Total	0.66	J	2.0	0.28	ug/L	1		8260B	Total/NA

Client Sample ID: CDFMW-14

Lab Sample ID: 240-23650-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.44	J	1.0	0.15	ug/L	1		8260B	Total/NA
Trichloroethene	0.22	J	1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: MW-36D

Lab Sample ID: 240-23650-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.8	J	10	1.1	ug/L	1		8260B	Total/NA
Benzene	0.42	J	1.0	0.13	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	2.1		1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	1.4		1.0	0.15	ug/L	1		8260B	Total/NA
Isopropylbenzene	0.34	J	1.0	0.13	ug/L	1		8260B	Total/NA
Trichloroethene	0.37	J	1.0	0.17	ug/L	1		8260B	Total/NA
Vinyl chloride	0.44	J	1.0	0.22	ug/L	1		8260B	Total/NA
Xylenes, Total	0.68	J	2.0	0.28	ug/L	1		8260B	Total/NA

Client Sample ID: CDFMW-9

Lab Sample ID: 240-23650-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.4	J	10	1.1	ug/L	1		8260B	Total/NA
Vinyl chloride	0.23	J	1.0	0.22	ug/L	1		8260B	Total/NA
Xylenes, Total	0.67	J	2.0	0.28	ug/L	1		8260B	Total/NA

Client Sample ID: MW-6

Lab Sample ID: 240-23650-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.1	J	10	1.1	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	1.8		1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	2.7		1.0	0.15	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.21	J	1.0	0.19	ug/L	1		8260B	Total/NA
Tetrachloroethene	4.0		1.0	0.29	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	3.6		1.0	0.22	ug/L	1		8260B	Total/NA
Trichloroethene	14		1.0	0.17	ug/L	1		8260B	Total/NA
Vinyl chloride	0.67	J	1.0	0.22	ug/L	1		8260B	Total/NA

Client Sample ID: MW-29

Lab Sample ID: 240-23650-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	11		1.0	0.17	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-29 (Continued)

Lab Sample ID: 240-23650-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.86	J	1.0	0.15	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.20	J	1.0	0.19	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	0.86	J	1.0	0.22	ug/L	1		8260B	Total/NA
Trichloroethene	8.6		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: MW-33

Lab Sample ID: 240-23650-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.4	J	10	1.1	ug/L	1		8260B	Total/NA

Client Sample ID: CDFMW-22

Lab Sample ID: 240-23650-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.90	J	1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	1.2		1.0	0.15	ug/L	1		8260B	Total/NA
Vinyl chloride	0.24	J	1.0	0.22	ug/L	1		8260B	Total/NA
Acenaphthene	2.6		0.21	0.10	ug/L	1		8270C	Total/NA
Fluorene	1.2		0.21	0.10	ug/L	1		8270C	Total/NA
Pyrene	0.20	J	0.21	0.10	ug/L	1		8270C	Total/NA

Client Sample ID: CDFMW-10

Lab Sample ID: 240-23650-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.67	J	1.0	0.15	ug/L	1		8260B	Total/NA

Client Sample ID: CDFMW-16

Lab Sample ID: 240-23650-16

No Detections.

Client Sample ID: CDFMW-11

Lab Sample ID: 240-23650-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.2	J	10	1.1	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	2.4		1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	0.62	J	1.0	0.15	ug/L	1		8260B	Total/NA
Toluene	0.15	J	1.0	0.13	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.4		1.0	0.19	ug/L	1		8260B	Total/NA
Trichloroethene	1.2		1.0	0.17	ug/L	1		8260B	Total/NA
Xylenes, Total	0.37	J	2.0	0.28	ug/L	1		8260B	Total/NA

Client Sample ID: CDFMW-23

Lab Sample ID: 240-23650-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	17		1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	1.1		1.0	0.15	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	2.4		1.0	0.19	ug/L	1		8260B	Total/NA
Vinyl chloride	0.95	J	1.0	0.22	ug/L	1		8260B	Total/NA

Client Sample ID: CDFMW-21

Lab Sample ID: 240-23650-19

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-21 (Continued)

Lab Sample ID: 240-23650-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.98	J	1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	5.0		1.0	0.15	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.23	J	1.0	0.19	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	0.43	J	1.0	0.22	ug/L	1		8260B	Total/NA
Trichloroethene	1.3		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: CDFMW-7

Lab Sample ID: 240-23650-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.4		1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	3.3		1.0	0.15	ug/L	1		8260B	Total/NA
Pyrene	0.18	J	0.22	0.11	ug/L	1		8270C	Total/NA

Client Sample ID: CDFMW-21D

Lab Sample ID: 240-23650-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.0		1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	4.9		1.0	0.15	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.37	J	1.0	0.19	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	0.53	J	1.0	0.22	ug/L	1		8260B	Total/NA
Trichloroethene	1.3		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: FW-9

Lab Sample ID: 240-23650-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.27	J	1.0	0.15	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	0.85	J	1.0	0.22	ug/L	1		8260B	Total/NA
Trichloroethene	7.4		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: MW-19

Lab Sample ID: 240-23650-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.6		2.0	0.34	ug/L	2		8260B	Total/NA
1,1-Dichloroethane	0.86	J	2.0	0.30	ug/L	2		8260B	Total/NA
1,1-Dichloroethene	0.49	J	2.0	0.38	ug/L	2		8260B	Total/NA
trans-1,2-Dichloroethene	0.51	J	2.0	0.38	ug/L	2		8260B	Total/NA
1,1,1-Trichloroethane	5.9		2.0	0.44	ug/L	2		8260B	Total/NA
Trichloroethene	43		2.0	0.34	ug/L	2		8260B	Total/NA

Client Sample ID: MW-45

Lab Sample ID: 240-23650-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.2		1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	0.28	J	1.0	0.15	ug/L	1		8260B	Total/NA
Tetrachloroethene	0.29	J	1.0	0.29	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.27	J	1.0	0.19	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	0.70	J	1.0	0.22	ug/L	1		8260B	Total/NA
Trichloroethene	3.5		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: MW-43

Lab Sample ID: 240-23650-25

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-43 (Continued)

Lab Sample ID: 240-23650-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	8.3		1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	0.81	J	1.0	0.15	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.51	J	1.0	0.19	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	0.79	J	1.0	0.22	ug/L	1		8260B	Total/NA
Trichloroethene	8.2		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: MW-35

Lab Sample ID: 240-23650-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.58	J	1.0	0.29	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	3.9		1.0	0.22	ug/L	1		8260B	Total/NA
Trichloroethene	23		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: CDFMW-20

Lab Sample ID: 240-23650-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.5	J	10	1.1	ug/L	1		8260B	Total/NA
Tetrachloroethene	12		1.0	0.29	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	0.40	J	1.0	0.22	ug/L	1		8260B	Total/NA
Trichloroethene	1.2		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: MW-14

Lab Sample ID: 240-23650-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.65	J	1.0	0.15	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	1.3		1.0	0.22	ug/L	1		8260B	Total/NA
Trichloroethene	3.2		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: MW-23

Lab Sample ID: 240-23650-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.5		1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	0.91	J	1.0	0.15	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.33	J	1.0	0.19	ug/L	1		8260B	Total/NA
Trichloroethene	19		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: MW-22

Lab Sample ID: 240-23650-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.8		1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	2.0		1.0	0.15	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.21	J	1.0	0.19	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.20	J	1.0	0.19	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	2.0		1.0	0.22	ug/L	1		8260B	Total/NA
Trichloroethene	24		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: MW-38

Lab Sample ID: 240-23650-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4.2		1.0	0.17	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-38 (Continued)

Lab Sample ID: 240-23650-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	3.5		1.0	0.15	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.6		1.0	0.19	ug/L	1		8260B	Total/NA
Trichloroethene	4.6		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: MW-13

Lab Sample ID: 240-23650-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.40	J	1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: MW-34

Lab Sample ID: 240-23650-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.1	J	10	1.1	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	3.1		1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	0.68	J	1.0	0.15	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.20	J	1.0	0.19	ug/L	1		8260B	Total/NA
Tetrachloroethene	1.3		1.0	0.29	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	2.2		1.0	0.22	ug/L	1		8260B	Total/NA
Trichloroethene	25		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: CDFMW-12

Lab Sample ID: 240-23650-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.3		1.0	0.15	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.22	J	1.0	0.19	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	3.6		1.0	0.22	ug/L	1		8260B	Total/NA
Trichloroethene	4.1		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: MW-44

Lab Sample ID: 240-23650-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	10		1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	1.0		1.0	0.15	ug/L	1		8260B	Total/NA
Tetrachloroethene	0.73	J	1.0	0.29	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.7		1.0	0.19	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	0.76	J	1.0	0.22	ug/L	1		8260B	Total/NA
Trichloroethene	17		1.0	0.17	ug/L	1		8260B	Total/NA
Vinyl chloride	0.49	J	1.0	0.22	ug/L	1		8260B	Total/NA

Client Sample ID: MW-5

Lab Sample ID: 240-23650-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.1	J	10	1.1	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	2.9		1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	4.0		1.0	0.15	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.48	J	1.0	0.19	ug/L	1		8260B	Total/NA
Tetrachloroethene	3.3		1.0	0.29	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	4.9		1.0	0.22	ug/L	1		8260B	Total/NA
Trichloroethene	20		1.0	0.17	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-5D

Lab Sample ID: 240-23650-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.3	J	10	1.1	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	2.5		1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	3.6		1.0	0.15	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.46	J	1.0	0.19	ug/L	1		8260B	Total/NA
Tetrachloroethene	3.3		1.0	0.29	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	4.4		1.0	0.22	ug/L	1		8260B	Total/NA
Trichloroethene	18		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: AMBIENT

Lab Sample ID: 240-23650-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.2	J	10	1.1	ug/L	1		8260B	Total/NA

Client Sample ID: EB1-OEPA

Lab Sample ID: 240-23650-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.2	J	10	1.1	ug/L	1		8260B	Total/NA

Client Sample ID: EB2-IE

Lab Sample ID: 240-23650-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.28	J	1.0	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-23650-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.3	J	10	1.1	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-1

Lab Sample ID: 240-23650-1

Date Collected: 04/22/13 13:55

Matrix: Water

Date Received: 04/25/13 11:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.1	J	10	1.1	ug/L		04/30/13 13:44		1
Benzene	1.0	U	1.0	0.13	ug/L		04/30/13 13:44		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		04/30/13 13:44		1
Bromoform	1.0	U	1.0	0.64	ug/L		04/30/13 13:44		1
Bromomethane	1.0	U	1.0	0.41	ug/L		04/30/13 13:44		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		04/30/13 13:44		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		04/30/13 13:44		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		04/30/13 13:44		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 13:44		1
Chloroethane	1.0	U	1.0	0.29	ug/L		04/30/13 13:44		1
Chloroform	1.0	U	1.0	0.16	ug/L		04/30/13 13:44		1
Chloromethane	1.0	U	1.0	0.30	ug/L		04/30/13 13:44		1
cis-1,2-Dichloroethene	1.1		1.0	0.17	ug/L		04/30/13 13:44		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		04/30/13 13:44		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		04/30/13 13:44		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		04/30/13 13:44		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		04/30/13 13:44		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 13:44		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		04/30/13 13:44		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 13:44		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		04/30/13 13:44		1
1,1-Dichloroethane	2.3		1.0	0.15	ug/L		04/30/13 13:44		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 13:44		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 13:44		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		04/30/13 13:44		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		04/30/13 13:44		1
2-Hexanone	10	U	10	0.41	ug/L		04/30/13 13:44		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		04/30/13 13:44		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		04/30/13 13:44		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		04/30/13 13:44		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		04/30/13 13:44		1
n-Hexane	1.0	U	1.0	0.26	ug/L		04/30/13 13:44		1
Styrene	1.0	U	1.0	0.11	ug/L		04/30/13 13:44		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		04/30/13 13:44		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		04/30/13 13:44		1
Toluene	1.0	U	1.0	0.13	ug/L		04/30/13 13:44		1
trans-1,2-Dichloroethene	1.3		1.0	0.19	ug/L		04/30/13 13:44		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		04/30/13 13:44		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 13:44		1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 13:44		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		04/30/13 13:44		1
Trichloroethene	1.0	U	1.0	0.17	ug/L		04/30/13 13:44		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		04/30/13 13:44		1
Vinyl chloride	0.71	J	1.0	0.22	ug/L		04/30/13 13:44		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		04/30/13 13:44		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		66 - 117		04/30/13 13:44	1
Dibromofluoromethane (Surr)	98		75 - 121		04/30/13 13:44	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-1
Date Collected: 04/22/13 13:55
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		63 - 129		04/30/13 13:44	1
Toluene-d8 (Surr)	89		74 - 115		04/30/13 13:44	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-2

Lab Sample ID: 240-23650-2

Matrix: Water

Date Collected: 04/22/13 11:55

Date Received: 04/25/13 11:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L		04/30/13 14:06		1
Benzene	0.13	J	1.0	0.13	ug/L		04/30/13 14:06		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		04/30/13 14:06		1
Bromoform	1.0	U	1.0	0.64	ug/L		04/30/13 14:06		1
Bromomethane	1.0	U	1.0	0.41	ug/L		04/30/13 14:06		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		04/30/13 14:06		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		04/30/13 14:06		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		04/30/13 14:06		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 14:06		1
Chloroethane	1.0	U	1.0	0.29	ug/L		04/30/13 14:06		1
Chloroform	1.0	U	1.0	0.16	ug/L		04/30/13 14:06		1
Chloromethane	1.0	U	1.0	0.30	ug/L		04/30/13 14:06		1
cis-1,2-Dichloroethene	20		1.0	0.17	ug/L		04/30/13 14:06		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		04/30/13 14:06		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		04/30/13 14:06		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		04/30/13 14:06		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		04/30/13 14:06		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 14:06		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		04/30/13 14:06		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 14:06		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		04/30/13 14:06		1
1,1-Dichloroethane	1.2		1.0	0.15	ug/L		04/30/13 14:06		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 14:06		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 14:06		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		04/30/13 14:06		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		04/30/13 14:06		1
2-Hexanone	10	U	10	0.41	ug/L		04/30/13 14:06		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		04/30/13 14:06		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		04/30/13 14:06		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		04/30/13 14:06		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		04/30/13 14:06		1
n-Hexane	1.0	U	1.0	0.26	ug/L		04/30/13 14:06		1
Styrene	1.0	U	1.0	0.11	ug/L		04/30/13 14:06		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		04/30/13 14:06		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		04/30/13 14:06		1
Toluene	1.0	U	1.0	0.13	ug/L		04/30/13 14:06		1
trans-1,2-Dichloroethene	0.45	J	1.0	0.19	ug/L		04/30/13 14:06		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		04/30/13 14:06		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 14:06		1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 14:06		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		04/30/13 14:06		1
Trichloroethene	1.3		1.0	0.17	ug/L		04/30/13 14:06		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		04/30/13 14:06		1
Vinyl chloride	0.57	J	1.0	0.22	ug/L		04/30/13 14:06		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		04/30/13 14:06		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		66 - 117		04/30/13 14:06	1
Dibromofluoromethane (Surr)	100		75 - 121		04/30/13 14:06	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-2
Date Collected: 04/22/13 11:55
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		63 - 129		04/30/13 14:06	1
Toluene-d8 (Surr)	88		74 - 115		04/30/13 14:06	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-19

Lab Sample ID: 240-23650-3

Matrix: Water

Date Collected: 04/22/13 13:50

Date Received: 04/25/13 11:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.6	J	10	1.1	ug/L		04/30/13 14:28		1
Benzene	1.0	U	1.0	0.13	ug/L		04/30/13 14:28		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		04/30/13 14:28		1
Bromoform	1.0	U	1.0	0.64	ug/L		04/30/13 14:28		1
Bromomethane	1.0	U	1.0	0.41	ug/L		04/30/13 14:28		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		04/30/13 14:28		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		04/30/13 14:28		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		04/30/13 14:28		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 14:28		1
Chloroethane	1.0	U	1.0	0.29	ug/L		04/30/13 14:28		1
Chloroform	1.0	U	1.0	0.16	ug/L		04/30/13 14:28		1
Chloromethane	1.0	U	1.0	0.30	ug/L		04/30/13 14:28		1
cis-1,2-Dichloroethene	0.53	J	1.0	0.17	ug/L		04/30/13 14:28		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		04/30/13 14:28		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		04/30/13 14:28		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		04/30/13 14:28		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		04/30/13 14:28		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 14:28		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		04/30/13 14:28		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 14:28		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		04/30/13 14:28		1
1,1-Dichloroethane	1.9		1.0	0.15	ug/L		04/30/13 14:28		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 14:28		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 14:28		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		04/30/13 14:28		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		04/30/13 14:28		1
2-Hexanone	10	U	10	0.41	ug/L		04/30/13 14:28		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		04/30/13 14:28		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		04/30/13 14:28		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		04/30/13 14:28		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		04/30/13 14:28		1
n-Hexane	1.0	U	1.0	0.26	ug/L		04/30/13 14:28		1
Styrene	1.0	U	1.0	0.11	ug/L		04/30/13 14:28		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		04/30/13 14:28		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		04/30/13 14:28		1
Toluene	1.0	U	1.0	0.13	ug/L		04/30/13 14:28		1
trans-1,2-Dichloroethene	0.82	J	1.0	0.19	ug/L		04/30/13 14:28		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		04/30/13 14:28		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 14:28		1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 14:28		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		04/30/13 14:28		1
Trichloroethene	1.0	U	1.0	0.17	ug/L		04/30/13 14:28		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		04/30/13 14:28		1
Vinyl chloride	0.64	J	1.0	0.22	ug/L		04/30/13 14:28		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		04/30/13 14:28		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		66 - 117		04/30/13 14:28	1
Dibromofluoromethane (Surr)	101		75 - 121		04/30/13 14:28	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-19

Lab Sample ID: 240-23650-3

Date Collected: 04/22/13 13:50
Date Received: 04/25/13 11:00

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		63 - 129		04/30/13 14:28	1
Toluene-d8 (Surr)	88		74 - 115		04/30/13 14:28	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-3

Date Collected: 04/22/13 16:00

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.6	J	10	1.1	ug/L		04/30/13 14:49		1
Benzene	1.0	U	1.0	0.13	ug/L		04/30/13 14:49		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		04/30/13 14:49		1
Bromoform	1.0	U	1.0	0.64	ug/L		04/30/13 14:49		1
Bromomethane	1.0	U	1.0	0.41	ug/L		04/30/13 14:49		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		04/30/13 14:49		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		04/30/13 14:49		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		04/30/13 14:49		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 14:49		1
Chloroethane	1.0	U	1.0	0.29	ug/L		04/30/13 14:49		1
Chloroform	1.0	U	1.0	0.16	ug/L		04/30/13 14:49		1
Chloromethane	1.0	U	1.0	0.30	ug/L		04/30/13 14:49		1
cis-1,2-Dichloroethene	3.1		1.0	0.17	ug/L		04/30/13 14:49		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		04/30/13 14:49		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		04/30/13 14:49		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		04/30/13 14:49		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		04/30/13 14:49		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 14:49		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		04/30/13 14:49		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 14:49		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		04/30/13 14:49		1
1,1-Dichloroethane	1.6		1.0	0.15	ug/L		04/30/13 14:49		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 14:49		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 14:49		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		04/30/13 14:49		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		04/30/13 14:49		1
2-Hexanone	10	U	10	0.41	ug/L		04/30/13 14:49		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		04/30/13 14:49		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		04/30/13 14:49		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		04/30/13 14:49		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		04/30/13 14:49		1
n-Hexane	1.0	U	1.0	0.26	ug/L		04/30/13 14:49		1
Styrene	1.0	U	1.0	0.11	ug/L		04/30/13 14:49		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		04/30/13 14:49		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		04/30/13 14:49		1
Toluene	1.0	U	1.0	0.13	ug/L		04/30/13 14:49		1
trans-1,2-Dichloroethene	0.60	J	1.0	0.19	ug/L		04/30/13 14:49		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		04/30/13 14:49		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 14:49		1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 14:49		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		04/30/13 14:49		1
Trichloroethene	5.9		1.0	0.17	ug/L		04/30/13 14:49		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		04/30/13 14:49		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		04/30/13 14:49		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		04/30/13 14:49		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	87		66 - 117				04/30/13 14:49		1
Dibromofluoromethane (Surr)	103		75 - 121				04/30/13 14:49		1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-3
Date Collected: 04/22/13 16:00
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		63 - 129		04/30/13 14:49	1
Toluene-d8 (Surr)	87		74 - 115		04/30/13 14:49	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-18

Lab Sample ID: 240-23650-5

Matrix: Water

Date Collected: 04/22/13 15:00

Date Received: 04/25/13 11:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.4	J	10	1.1	ug/L		04/30/13 15:10		1
Benzene	1.0	U	1.0	0.13	ug/L		04/30/13 15:10		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		04/30/13 15:10		1
Bromoform	1.0	U	1.0	0.64	ug/L		04/30/13 15:10		1
Bromomethane	1.0	U	1.0	0.41	ug/L		04/30/13 15:10		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		04/30/13 15:10		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		04/30/13 15:10		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		04/30/13 15:10		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 15:10		1
Chloroethane	1.0	U	1.0	0.29	ug/L		04/30/13 15:10		1
Chloroform	1.0	U	1.0	0.16	ug/L		04/30/13 15:10		1
Chloromethane	1.0	U	1.0	0.30	ug/L		04/30/13 15:10		1
cis-1,2-Dichloroethene	0.51	J	1.0	0.17	ug/L		04/30/13 15:10		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		04/30/13 15:10		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		04/30/13 15:10		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		04/30/13 15:10		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		04/30/13 15:10		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 15:10		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		04/30/13 15:10		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 15:10		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		04/30/13 15:10		1
1,1-Dichloroethane	1.5		1.0	0.15	ug/L		04/30/13 15:10		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 15:10		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 15:10		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		04/30/13 15:10		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		04/30/13 15:10		1
2-Hexanone	10	U	10	0.41	ug/L		04/30/13 15:10		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		04/30/13 15:10		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		04/30/13 15:10		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		04/30/13 15:10		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		04/30/13 15:10		1
n-Hexane	1.0	U	1.0	0.26	ug/L		04/30/13 15:10		1
Styrene	1.0	U	1.0	0.11	ug/L		04/30/13 15:10		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		04/30/13 15:10		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		04/30/13 15:10		1
Toluene	1.0	U	1.0	0.13	ug/L		04/30/13 15:10		1
trans-1,2-Dichloroethene	0.34	J	1.0	0.19	ug/L		04/30/13 15:10		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		04/30/13 15:10		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 15:10		1
1,1,1-Trichloroethane	0.51	J	1.0	0.22	ug/L		04/30/13 15:10		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		04/30/13 15:10		1
Trichloroethene	1.0	U	1.0	0.17	ug/L		04/30/13 15:10		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		04/30/13 15:10		1
Vinyl chloride	0.32	J	1.0	0.22	ug/L		04/30/13 15:10		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		04/30/13 15:10		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		66 - 117		04/30/13 15:10	1
Dibromofluoromethane (Surr)	99		75 - 121		04/30/13 15:10	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-18
Date Collected: 04/22/13 15:00
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		63 - 129		04/30/13 15:10	1
Toluene-d8 (Surr)	89		74 - 115		04/30/13 15:10	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-4

Lab Sample ID: 240-23650-6

Matrix: Water

Date Collected: 04/22/13 15:05

Date Received: 04/25/13 11:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.3	J	10	1.1	ug/L		04/30/13 15:32		1
Benzene	1.0	U	1.0	0.13	ug/L		04/30/13 15:32		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		04/30/13 15:32		1
Bromoform	1.0	U	1.0	0.64	ug/L		04/30/13 15:32		1
Bromomethane	1.0	U	1.0	0.41	ug/L		04/30/13 15:32		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		04/30/13 15:32		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		04/30/13 15:32		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		04/30/13 15:32		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 15:32		1
Chloroethane	1.0	U	1.0	0.29	ug/L		04/30/13 15:32		1
Chloroform	1.0	U	1.0	0.16	ug/L		04/30/13 15:32		1
Chloromethane	1.0	U	1.0	0.30	ug/L		04/30/13 15:32		1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L		04/30/13 15:32		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		04/30/13 15:32		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		04/30/13 15:32		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		04/30/13 15:32		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		04/30/13 15:32		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 15:32		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		04/30/13 15:32		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 15:32		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		04/30/13 15:32		1
1,1-Dichloroethane	0.49	J	1.0	0.15	ug/L		04/30/13 15:32		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 15:32		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 15:32		1
1,2-Dichloropropane	1.0	U	1.0	0.18	ug/L		04/30/13 15:32		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		04/30/13 15:32		1
2-Hexanone	10	U	10	0.41	ug/L		04/30/13 15:32		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		04/30/13 15:32		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		04/30/13 15:32		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		04/30/13 15:32		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		04/30/13 15:32		1
n-Hexane	1.0	U	1.0	0.26	ug/L		04/30/13 15:32		1
Styrene	1.0	U	1.0	0.11	ug/L		04/30/13 15:32		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		04/30/13 15:32		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		04/30/13 15:32		1
Toluene	1.0	U	1.0	0.13	ug/L		04/30/13 15:32		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 15:32		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		04/30/13 15:32		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 15:32		1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 15:32		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		04/30/13 15:32		1
Trichloroethene	1.0	U	1.0	0.17	ug/L		04/30/13 15:32		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		04/30/13 15:32		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		04/30/13 15:32		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		04/30/13 15:32		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		66 - 117		04/30/13 15:32	1
Dibromofluoromethane (Surr)	97		75 - 121		04/30/13 15:32	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-4
Date Collected: 04/22/13 15:05
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		63 - 129		04/30/13 15:32	1
Toluene-d8 (Surr)	88		74 - 115		04/30/13 15:32	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-36

Lab Sample ID: 240-23650-7

Date Collected: 04/22/13 18:00

Matrix: Water

Date Received: 04/25/13 11:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.8	J	10	1.1	ug/L		04/30/13 15:54		1
Benzene	0.47	J	1.0	0.13	ug/L		04/30/13 15:54		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		04/30/13 15:54		1
Bromoform	1.0	U	1.0	0.64	ug/L		04/30/13 15:54		1
Bromomethane	1.0	U	1.0	0.41	ug/L		04/30/13 15:54		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		04/30/13 15:54		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		04/30/13 15:54		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		04/30/13 15:54		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 15:54		1
Chloroethane	1.0	U	1.0	0.29	ug/L		04/30/13 15:54		1
Chloroform	1.0	U	1.0	0.16	ug/L		04/30/13 15:54		1
Chloromethane	1.0	U	1.0	0.30	ug/L		04/30/13 15:54		1
cis-1,2-Dichloroethene	2.3		1.0	0.17	ug/L		04/30/13 15:54		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		04/30/13 15:54		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		04/30/13 15:54		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		04/30/13 15:54		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		04/30/13 15:54		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 15:54		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		04/30/13 15:54		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 15:54		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		04/30/13 15:54		1
1,1-Dichloroethane	1.5		1.0	0.15	ug/L		04/30/13 15:54		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 15:54		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 15:54		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		04/30/13 15:54		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		04/30/13 15:54		1
2-Hexanone	10	U	10	0.41	ug/L		04/30/13 15:54		1
Isopropylbenzene	0.37	J	1.0	0.13	ug/L		04/30/13 15:54		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		04/30/13 15:54		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		04/30/13 15:54		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		04/30/13 15:54		1
n-Hexane	1.0	U	1.0	0.26	ug/L		04/30/13 15:54		1
Styrene	1.0	U	1.0	0.11	ug/L		04/30/13 15:54		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		04/30/13 15:54		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		04/30/13 15:54		1
Toluene	1.0	U	1.0	0.13	ug/L		04/30/13 15:54		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 15:54		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		04/30/13 15:54		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 15:54		1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 15:54		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		04/30/13 15:54		1
Trichloroethene	0.32	J	1.0	0.17	ug/L		04/30/13 15:54		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		04/30/13 15:54		1
Vinyl chloride	0.42	J	1.0	0.22	ug/L		04/30/13 15:54		1
Xylenes, Total	0.66	J	2.0	0.28	ug/L		04/30/13 15:54		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		66 - 117		04/30/13 15:54	1
Dibromofluoromethane (Surr)	109		75 - 121		04/30/13 15:54	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-36
Date Collected: 04/22/13 18:00
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		63 - 129		04/30/13 15:54	1
Toluene-d8 (Surr)	84		74 - 115		04/30/13 15:54	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-14

Lab Sample ID: 240-23650-8

Matrix: Water

Date Collected: 04/22/13 16:15

Date Received: 04/25/13 11:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L		04/30/13 16:16		1
Benzene	1.0	U	1.0	0.13	ug/L		04/30/13 16:16		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		04/30/13 16:16		1
Bromoform	1.0	U	1.0	0.64	ug/L		04/30/13 16:16		1
Bromomethane	1.0	U	1.0	0.41	ug/L		04/30/13 16:16		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		04/30/13 16:16		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		04/30/13 16:16		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		04/30/13 16:16		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 16:16		1
Chloroethane	1.0	U	1.0	0.29	ug/L		04/30/13 16:16		1
Chloroform	1.0	U	1.0	0.16	ug/L		04/30/13 16:16		1
Chloromethane	1.0	U	1.0	0.30	ug/L		04/30/13 16:16		1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L		04/30/13 16:16		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		04/30/13 16:16		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		04/30/13 16:16		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		04/30/13 16:16		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		04/30/13 16:16		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 16:16		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		04/30/13 16:16		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 16:16		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		04/30/13 16:16		1
1,1-Dichloroethane	0.44	J	1.0	0.15	ug/L		04/30/13 16:16		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 16:16		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 16:16		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		04/30/13 16:16		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		04/30/13 16:16		1
2-Hexanone	10	U	10	0.41	ug/L		04/30/13 16:16		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		04/30/13 16:16		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		04/30/13 16:16		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		04/30/13 16:16		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		04/30/13 16:16		1
n-Hexane	1.0	U	1.0	0.26	ug/L		04/30/13 16:16		1
Styrene	1.0	U	1.0	0.11	ug/L		04/30/13 16:16		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		04/30/13 16:16		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		04/30/13 16:16		1
Toluene	1.0	U	1.0	0.13	ug/L		04/30/13 16:16		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 16:16		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		04/30/13 16:16		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 16:16		1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 16:16		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		04/30/13 16:16		1
Trichloroethene	0.22	J	1.0	0.17	ug/L		04/30/13 16:16		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		04/30/13 16:16		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		04/30/13 16:16		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		04/30/13 16:16		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		66 - 117		04/30/13 16:16	1
Dibromofluoromethane (Surr)	98		75 - 121		04/30/13 16:16	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-14
Date Collected: 04/22/13 16:15
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		63 - 129		04/30/13 16:16	1
Toluene-d8 (Surr)	90		74 - 115		04/30/13 16:16	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-36D

Date Collected: 04/22/13 18:00

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-9

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.8	J	10	1.1	ug/L		04/30/13 16:37		1
Benzene	0.42	J	1.0	0.13	ug/L		04/30/13 16:37		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		04/30/13 16:37		1
Bromoform	1.0	U	1.0	0.64	ug/L		04/30/13 16:37		1
Bromomethane	1.0	U	1.0	0.41	ug/L		04/30/13 16:37		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		04/30/13 16:37		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		04/30/13 16:37		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		04/30/13 16:37		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 16:37		1
Chloroethane	1.0	U	1.0	0.29	ug/L		04/30/13 16:37		1
Chloroform	1.0	U	1.0	0.16	ug/L		04/30/13 16:37		1
Chloromethane	1.0	U	1.0	0.30	ug/L		04/30/13 16:37		1
cis-1,2-Dichloroethene	2.1		1.0	0.17	ug/L		04/30/13 16:37		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		04/30/13 16:37		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		04/30/13 16:37		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		04/30/13 16:37		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		04/30/13 16:37		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 16:37		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		04/30/13 16:37		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 16:37		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		04/30/13 16:37		1
1,1-Dichloroethane	1.4		1.0	0.15	ug/L		04/30/13 16:37		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 16:37		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 16:37		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		04/30/13 16:37		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		04/30/13 16:37		1
2-Hexanone	10	U	10	0.41	ug/L		04/30/13 16:37		1
Isopropylbenzene	0.34	J	1.0	0.13	ug/L		04/30/13 16:37		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		04/30/13 16:37		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		04/30/13 16:37		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		04/30/13 16:37		1
n-Hexane	1.0	U	1.0	0.26	ug/L		04/30/13 16:37		1
Styrene	1.0	U	1.0	0.11	ug/L		04/30/13 16:37		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		04/30/13 16:37		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		04/30/13 16:37		1
Toluene	1.0	U	1.0	0.13	ug/L		04/30/13 16:37		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 16:37		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		04/30/13 16:37		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 16:37		1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 16:37		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		04/30/13 16:37		1
Trichloroethene	0.37	J	1.0	0.17	ug/L		04/30/13 16:37		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		04/30/13 16:37		1
Vinyl chloride	0.44	J	1.0	0.22	ug/L		04/30/13 16:37		1
Xylenes, Total	0.68	J	2.0	0.28	ug/L		04/30/13 16:37		1
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86			66 - 117			04/30/13 16:37		1
Dibromofluoromethane (Surr)	102			75 - 121			04/30/13 16:37		1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-36D
Date Collected: 04/22/13 18:00
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		63 - 129		04/30/13 16:37	1
Toluene-d8 (Surr)	84		74 - 115		04/30/13 16:37	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-9

Date Collected: 04/22/13 17:20

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-10

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.4	J	10	1.1	ug/L		04/30/13 16:58		1
Benzene	1.0	U	1.0	0.13	ug/L		04/30/13 16:58		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		04/30/13 16:58		1
Bromoform	1.0	U	1.0	0.64	ug/L		04/30/13 16:58		1
Bromomethane	1.0	U	1.0	0.41	ug/L		04/30/13 16:58		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		04/30/13 16:58		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		04/30/13 16:58		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		04/30/13 16:58		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 16:58		1
Chloroethane	1.0	U	1.0	0.29	ug/L		04/30/13 16:58		1
Chloroform	1.0	U	1.0	0.16	ug/L		04/30/13 16:58		1
Chloromethane	1.0	U	1.0	0.30	ug/L		04/30/13 16:58		1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L		04/30/13 16:58		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		04/30/13 16:58		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		04/30/13 16:58		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		04/30/13 16:58		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		04/30/13 16:58		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 16:58		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		04/30/13 16:58		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 16:58		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		04/30/13 16:58		1
1,1-Dichloroethane	1.0	U	1.0	0.15	ug/L		04/30/13 16:58		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 16:58		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 16:58		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		04/30/13 16:58		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		04/30/13 16:58		1
2-Hexanone	10	U	10	0.41	ug/L		04/30/13 16:58		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		04/30/13 16:58		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		04/30/13 16:58		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		04/30/13 16:58		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		04/30/13 16:58		1
n-Hexane	1.0	U	1.0	0.26	ug/L		04/30/13 16:58		1
Styrene	1.0	U	1.0	0.11	ug/L		04/30/13 16:58		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		04/30/13 16:58		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		04/30/13 16:58		1
Toluene	1.0	U	1.0	0.13	ug/L		04/30/13 16:58		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 16:58		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		04/30/13 16:58		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 16:58		1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 16:58		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		04/30/13 16:58		1
Trichloroethene	1.0	U	1.0	0.17	ug/L		04/30/13 16:58		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		04/30/13 16:58		1
Vinyl chloride	0.23	J	1.0	0.22	ug/L		04/30/13 16:58		1
Xylenes, Total	0.67	J	2.0	0.28	ug/L		04/30/13 16:58		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		66 - 117		04/30/13 16:58	1
Dibromofluoromethane (Surr)	100		75 - 121		04/30/13 16:58	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-9
Date Collected: 04/22/13 17:20
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		63 - 129		04/30/13 16:58	1
Toluene-d8 (Surr)	91		74 - 115		04/30/13 16:58	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-6

Date Collected: 04/23/13 10:00

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-11

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.1	J	10	1.1	ug/L		04/30/13 17:20		1
Benzene	1.0	U	1.0	0.13	ug/L		04/30/13 17:20		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		04/30/13 17:20		1
Bromoform	1.0	U	1.0	0.64	ug/L		04/30/13 17:20		1
Bromomethane	1.0	U	1.0	0.41	ug/L		04/30/13 17:20		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		04/30/13 17:20		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		04/30/13 17:20		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		04/30/13 17:20		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 17:20		1
Chloroethane	1.0	U	1.0	0.29	ug/L		04/30/13 17:20		1
Chloroform	1.0	U	1.0	0.16	ug/L		04/30/13 17:20		1
Chloromethane	1.0	U	1.0	0.30	ug/L		04/30/13 17:20		1
cis-1,2-Dichloroethene	1.8		1.0	0.17	ug/L		04/30/13 17:20		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		04/30/13 17:20		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		04/30/13 17:20		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		04/30/13 17:20		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		04/30/13 17:20		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 17:20		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		04/30/13 17:20		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 17:20		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		04/30/13 17:20		1
1,1-Dichloroethane	2.7		1.0	0.15	ug/L		04/30/13 17:20		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 17:20		1
1,1-Dichloroethene	0.21	J	1.0	0.19	ug/L		04/30/13 17:20		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		04/30/13 17:20		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		04/30/13 17:20		1
2-Hexanone	10	U	10	0.41	ug/L		04/30/13 17:20		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		04/30/13 17:20		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		04/30/13 17:20		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		04/30/13 17:20		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		04/30/13 17:20		1
n-Hexane	1.0	U	1.0	0.26	ug/L		04/30/13 17:20		1
Styrene	1.0	U	1.0	0.11	ug/L		04/30/13 17:20		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		04/30/13 17:20		1
Tetrachloroethene	4.0		1.0	0.29	ug/L		04/30/13 17:20		1
Toluene	1.0	U	1.0	0.13	ug/L		04/30/13 17:20		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 17:20		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		04/30/13 17:20		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 17:20		1
1,1,1-Trichloroethane	3.6		1.0	0.22	ug/L		04/30/13 17:20		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		04/30/13 17:20		1
Trichloroethene	14		1.0	0.17	ug/L		04/30/13 17:20		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		04/30/13 17:20		1
Vinyl chloride	0.67	J	1.0	0.22	ug/L		04/30/13 17:20		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		04/30/13 17:20		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		66 - 117		04/30/13 17:20	1
Dibromofluoromethane (Surr)	105		75 - 121		04/30/13 17:20	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-6
Date Collected: 04/23/13 10:00
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		63 - 129		04/30/13 17:20	1
Toluene-d8 (Surr)	88		74 - 115		04/30/13 17:20	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-29

Date Collected: 04/23/13 09:40

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-12

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L		04/30/13 17:42		1
Benzene	1.0	U	1.0	0.13	ug/L		04/30/13 17:42		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		04/30/13 17:42		1
Bromoform	1.0	U	1.0	0.64	ug/L		04/30/13 17:42		1
Bromomethane	1.0	U	1.0	0.41	ug/L		04/30/13 17:42		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		04/30/13 17:42		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		04/30/13 17:42		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		04/30/13 17:42		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 17:42		1
Chloroethane	1.0	U	1.0	0.29	ug/L		04/30/13 17:42		1
Chloroform	1.0	U	1.0	0.16	ug/L		04/30/13 17:42		1
Chloromethane	1.0	U	1.0	0.30	ug/L		04/30/13 17:42		1
cis-1,2-Dichloroethene	11		1.0	0.17	ug/L		04/30/13 17:42		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		04/30/13 17:42		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		04/30/13 17:42		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		04/30/13 17:42		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		04/30/13 17:42		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 17:42		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		04/30/13 17:42		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 17:42		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		04/30/13 17:42		1
1,1-Dichloroethane	0.86 J		1.0	0.15	ug/L		04/30/13 17:42		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 17:42		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 17:42		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		04/30/13 17:42		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		04/30/13 17:42		1
2-Hexanone	10	U	10	0.41	ug/L		04/30/13 17:42		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		04/30/13 17:42		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		04/30/13 17:42		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		04/30/13 17:42		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		04/30/13 17:42		1
n-Hexane	1.0	U	1.0	0.26	ug/L		04/30/13 17:42		1
Styrene	1.0	U	1.0	0.11	ug/L		04/30/13 17:42		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		04/30/13 17:42		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		04/30/13 17:42		1
Toluene	1.0	U	1.0	0.13	ug/L		04/30/13 17:42		1
trans-1,2-Dichloroethene	0.20 J		1.0	0.19	ug/L		04/30/13 17:42		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		04/30/13 17:42		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 17:42		1
1,1,1-Trichloroethane	0.86 J		1.0	0.22	ug/L		04/30/13 17:42		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		04/30/13 17:42		1
Trichloroethene	8.6		1.0	0.17	ug/L		04/30/13 17:42		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		04/30/13 17:42		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		04/30/13 17:42		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		04/30/13 17:42		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		66 - 117		04/30/13 17:42	1
Dibromofluoromethane (Surr)	98		75 - 121		04/30/13 17:42	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-29
Date Collected: 04/23/13 09:40
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-12
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		63 - 129		04/30/13 17:42	1
Toluene-d8 (Surr)	88		74 - 115		04/30/13 17:42	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-33

Date Collected: 04/22/13 18:25

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-13

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.4	J	10	1.1	ug/L		04/30/13 18:04		1
Benzene	1.0	U	1.0	0.13	ug/L		04/30/13 18:04		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		04/30/13 18:04		1
Bromoform	1.0	U	1.0	0.64	ug/L		04/30/13 18:04		1
Bromomethane	1.0	U	1.0	0.41	ug/L		04/30/13 18:04		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		04/30/13 18:04		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		04/30/13 18:04		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		04/30/13 18:04		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 18:04		1
Chloroethane	1.0	U	1.0	0.29	ug/L		04/30/13 18:04		1
Chloroform	1.0	U	1.0	0.16	ug/L		04/30/13 18:04		1
Chloromethane	1.0	U	1.0	0.30	ug/L		04/30/13 18:04		1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L		04/30/13 18:04		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		04/30/13 18:04		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		04/30/13 18:04		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		04/30/13 18:04		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		04/30/13 18:04		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 18:04		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		04/30/13 18:04		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 18:04		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		04/30/13 18:04		1
1,1-Dichloroethane	1.0	U	1.0	0.15	ug/L		04/30/13 18:04		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 18:04		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 18:04		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		04/30/13 18:04		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		04/30/13 18:04		1
2-Hexanone	10	U	10	0.41	ug/L		04/30/13 18:04		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		04/30/13 18:04		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		04/30/13 18:04		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		04/30/13 18:04		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		04/30/13 18:04		1
n-Hexane	1.0	U	1.0	0.26	ug/L		04/30/13 18:04		1
Styrene	1.0	U	1.0	0.11	ug/L		04/30/13 18:04		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		04/30/13 18:04		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		04/30/13 18:04		1
Toluene	1.0	U	1.0	0.13	ug/L		04/30/13 18:04		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 18:04		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		04/30/13 18:04		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 18:04		1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 18:04		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		04/30/13 18:04		1
Trichloroethene	1.0	U	1.0	0.17	ug/L		04/30/13 18:04		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		04/30/13 18:04		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		04/30/13 18:04		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		04/30/13 18:04		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		66 - 117		04/30/13 18:04	1
Dibromofluoromethane (Surr)	100		75 - 121		04/30/13 18:04	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-33
Date Collected: 04/22/13 18:25
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-13
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		63 - 129		04/30/13 18:04	1
Toluene-d8 (Surr)	87		74 - 115		04/30/13 18:04	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-22

Date Collected: 04/23/13 10:55

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-14

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L		04/30/13 18:26		1
Benzene	1.0	U	1.0	0.13	ug/L		04/30/13 18:26		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		04/30/13 18:26		1
Bromoform	1.0	U	1.0	0.64	ug/L		04/30/13 18:26		1
Bromomethane	1.0	U	1.0	0.41	ug/L		04/30/13 18:26		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		04/30/13 18:26		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		04/30/13 18:26		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		04/30/13 18:26		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 18:26		1
Chloroethane	1.0	U	1.0	0.29	ug/L		04/30/13 18:26		1
Chloroform	1.0	U	1.0	0.16	ug/L		04/30/13 18:26		1
Chloromethane	1.0	U	1.0	0.30	ug/L		04/30/13 18:26		1
cis-1,2-Dichloroethene	0.90	J	1.0	0.17	ug/L		04/30/13 18:26		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		04/30/13 18:26		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		04/30/13 18:26		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		04/30/13 18:26		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		04/30/13 18:26		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 18:26		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		04/30/13 18:26		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 18:26		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		04/30/13 18:26		1
1,1-Dichloroethane	1.2		1.0	0.15	ug/L		04/30/13 18:26		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 18:26		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 18:26		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		04/30/13 18:26		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		04/30/13 18:26		1
2-Hexanone	10	U	10	0.41	ug/L		04/30/13 18:26		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		04/30/13 18:26		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		04/30/13 18:26		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		04/30/13 18:26		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		04/30/13 18:26		1
n-Hexane	1.0	U	1.0	0.26	ug/L		04/30/13 18:26		1
Styrene	1.0	U	1.0	0.11	ug/L		04/30/13 18:26		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		04/30/13 18:26		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		04/30/13 18:26		1
Toluene	1.0	U	1.0	0.13	ug/L		04/30/13 18:26		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 18:26		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		04/30/13 18:26		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 18:26		1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 18:26		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		04/30/13 18:26		1
Trichloroethene	1.0	U	1.0	0.17	ug/L		04/30/13 18:26		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		04/30/13 18:26		1
Vinyl chloride	0.24	J	1.0	0.22	ug/L		04/30/13 18:26		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		04/30/13 18:26		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		66 - 117		04/30/13 18:26	1
Dibromofluoromethane (Surr)	101		75 - 121		04/30/13 18:26	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-22

Lab Sample ID: 240-23650-14

Date Collected: 04/23/13 10:55
Date Received: 04/25/13 11:00

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		63 - 129		04/30/13 18:26	1
Toluene-d8 (Surr)	87		74 - 115		04/30/13 18:26	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	2.6		0.21	0.10	ug/L		04/29/13 11:39	05/02/13 16:28	1
Acenaphthylene	0.21	U	0.21	0.10	ug/L		04/29/13 11:39	05/02/13 16:28	1
Anthracene	0.21	U	0.21	0.10	ug/L		04/29/13 11:39	05/02/13 16:28	1
Benzo[a]anthracene	0.21	U	0.21	0.10	ug/L		04/29/13 11:39	05/02/13 16:28	1
Benzo[a]pyrene	0.21	U	0.21	0.10	ug/L		04/29/13 11:39	05/02/13 16:28	1
Benzo[b]fluoranthene	0.21	U	0.21	0.10	ug/L		04/29/13 11:39	05/02/13 16:28	1
Benzo[g,h,i]perylene	0.21	U	0.21	0.10	ug/L		04/29/13 11:39	05/02/13 16:28	1
Benzo[k]fluoranthene	0.21	U	0.21	0.10	ug/L		04/29/13 11:39	05/02/13 16:28	1
Chrysene	0.21	U	0.21	0.10	ug/L		04/29/13 11:39	05/02/13 16:28	1
Dibenz(a,h)anthracene	0.21	U	0.21	0.10	ug/L		04/29/13 11:39	05/02/13 16:28	1
Fluoranthene	0.21	U	0.21	0.10	ug/L		04/29/13 11:39	05/02/13 16:28	1
Fluorene	1.2		0.21	0.10	ug/L		04/29/13 11:39	05/02/13 16:28	1
Indeno[1,2,3-cd]pyrene	0.21	U	0.21	0.10	ug/L		04/29/13 11:39	05/02/13 16:28	1
2-Methylnaphthalene	0.21	U	0.21	0.10	ug/L		04/29/13 11:39	05/02/13 16:28	1
Naphthalene	0.21	U	0.21	0.10	ug/L		04/29/13 11:39	05/02/13 16:28	1
Phenanthrene	0.21	U	0.21	0.10	ug/L		04/29/13 11:39	05/02/13 16:28	1
Pyrene	0.20	J	0.21	0.10	ug/L		04/29/13 11:39	05/02/13 16:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	51		20 - 110		04/29/13 11:39	05/02/13 16:28
2-Fluorophenol (Surr)	54		10 - 110		04/29/13 11:39	05/02/13 16:28
Nitrobenzene-d5 (Surr)	54		21 - 110		04/29/13 11:39	05/02/13 16:28
Phenol-d5 (Surr)	56		21 - 110		04/29/13 11:39	05/02/13 16:28
Terphenyl-d14 (Surr)	41		24 - 110		04/29/13 11:39	05/02/13 16:28
2,4,6-Tribromophenol (Surr)	65		21 - 110		04/29/13 11:39	05/02/13 16:28

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-10

Date Collected: 04/23/13 11:10
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-15

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L		04/30/13 18:47		1
Benzene	1.0	U	1.0	0.13	ug/L		04/30/13 18:47		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		04/30/13 18:47		1
Bromoform	1.0	U	1.0	0.64	ug/L		04/30/13 18:47		1
Bromomethane	1.0	U	1.0	0.41	ug/L		04/30/13 18:47		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		04/30/13 18:47		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		04/30/13 18:47		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		04/30/13 18:47		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 18:47		1
Chloroethane	1.0	U	1.0	0.29	ug/L		04/30/13 18:47		1
Chloroform	1.0	U	1.0	0.16	ug/L		04/30/13 18:47		1
Chloromethane	1.0	U	1.0	0.30	ug/L		04/30/13 18:47		1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L		04/30/13 18:47		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		04/30/13 18:47		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		04/30/13 18:47		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		04/30/13 18:47		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		04/30/13 18:47		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 18:47		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		04/30/13 18:47		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 18:47		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		04/30/13 18:47		1
1,1-Dichloroethane	0.67	J	1.0	0.15	ug/L		04/30/13 18:47		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 18:47		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 18:47		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		04/30/13 18:47		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		04/30/13 18:47		1
2-Hexanone	10	U	10	0.41	ug/L		04/30/13 18:47		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		04/30/13 18:47		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		04/30/13 18:47		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		04/30/13 18:47		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		04/30/13 18:47		1
n-Hexane	1.0	U	1.0	0.26	ug/L		04/30/13 18:47		1
Styrene	1.0	U	1.0	0.11	ug/L		04/30/13 18:47		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		04/30/13 18:47		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		04/30/13 18:47		1
Toluene	1.0	U	1.0	0.13	ug/L		04/30/13 18:47		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 18:47		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		04/30/13 18:47		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 18:47		1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 18:47		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		04/30/13 18:47		1
Trichloroethene	1.0	U	1.0	0.17	ug/L		04/30/13 18:47		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		04/30/13 18:47		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		04/30/13 18:47		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		04/30/13 18:47		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		66 - 117		04/30/13 18:47	1
Dibromofluoromethane (Surr)	97		75 - 121		04/30/13 18:47	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-10
Date Collected: 04/23/13 11:10
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-15
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		63 - 129		04/30/13 18:47	1
Toluene-d8 (Surr)	91		74 - 115		04/30/13 18:47	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.24	U	0.24	0.12	ug/L		04/29/13 11:39	05/02/13 16:50	1
Acenaphthylene	0.24	U	0.24	0.12	ug/L		04/29/13 11:39	05/02/13 16:50	1
Anthracene	0.24	U	0.24	0.12	ug/L		04/29/13 11:39	05/02/13 16:50	1
Benzo[a]anthracene	0.24	U	0.24	0.12	ug/L		04/29/13 11:39	05/02/13 16:50	1
Benzo[a]pyrene	0.24	U	0.24	0.12	ug/L		04/29/13 11:39	05/02/13 16:50	1
Benzo[b]fluoranthene	0.24	U	0.24	0.12	ug/L		04/29/13 11:39	05/02/13 16:50	1
Benzo[g,h,i]perylene	0.24	U	0.24	0.12	ug/L		04/29/13 11:39	05/02/13 16:50	1
Benzo[k]fluoranthene	0.24	U	0.24	0.12	ug/L		04/29/13 11:39	05/02/13 16:50	1
Chrysene	0.24	U	0.24	0.12	ug/L		04/29/13 11:39	05/02/13 16:50	1
Dibenz(a,h)anthracene	0.24	U	0.24	0.12	ug/L		04/29/13 11:39	05/02/13 16:50	1
Fluoranthene	0.24	U	0.24	0.12	ug/L		04/29/13 11:39	05/02/13 16:50	1
Fluorene	0.24	U	0.24	0.12	ug/L		04/29/13 11:39	05/02/13 16:50	1
Indeno[1,2,3-cd]pyrene	0.24	U	0.24	0.12	ug/L		04/29/13 11:39	05/02/13 16:50	1
2-Methylnaphthalene	0.24	U	0.24	0.12	ug/L		04/29/13 11:39	05/02/13 16:50	1
Naphthalene	0.24	U	0.24	0.12	ug/L		04/29/13 11:39	05/02/13 16:50	1
Phenanthrene	0.24	U	0.24	0.12	ug/L		04/29/13 11:39	05/02/13 16:50	1
Pyrene	0.24	U	0.24	0.12	ug/L		04/29/13 11:39	05/02/13 16:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	46		20 - 110		04/29/13 11:39	05/02/13 16:50
2-Fluorophenol (Surr)	49		10 - 110		04/29/13 11:39	05/02/13 16:50
Nitrobenzene-d5 (Surr)	50		21 - 110		04/29/13 11:39	05/02/13 16:50
Phenol-d5 (Surr)	51		21 - 110		04/29/13 11:39	05/02/13 16:50
Terphenyl-d14 (Surr)	37		24 - 110		04/29/13 11:39	05/02/13 16:50
2,4,6-Tribromophenol (Surr)	61		21 - 110		04/29/13 11:39	05/02/13 16:50

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-16

Date Collected: 04/23/13 15:50

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-16

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L		04/30/13 19:08		1
Benzene	1.0	U	1.0	0.13	ug/L		04/30/13 19:08		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		04/30/13 19:08		1
Bromoform	1.0	U	1.0	0.64	ug/L		04/30/13 19:08		1
Bromomethane	1.0	U	1.0	0.41	ug/L		04/30/13 19:08		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		04/30/13 19:08		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		04/30/13 19:08		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		04/30/13 19:08		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 19:08		1
Chloroethane	1.0	U	1.0	0.29	ug/L		04/30/13 19:08		1
Chloroform	1.0	U	1.0	0.16	ug/L		04/30/13 19:08		1
Chloromethane	1.0	U	1.0	0.30	ug/L		04/30/13 19:08		1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L		04/30/13 19:08		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		04/30/13 19:08		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		04/30/13 19:08		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		04/30/13 19:08		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		04/30/13 19:08		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 19:08		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		04/30/13 19:08		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 19:08		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		04/30/13 19:08		1
1,1-Dichloroethane	1.0	U	1.0	0.15	ug/L		04/30/13 19:08		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 19:08		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 19:08		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		04/30/13 19:08		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		04/30/13 19:08		1
2-Hexanone	10	U	10	0.41	ug/L		04/30/13 19:08		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		04/30/13 19:08		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		04/30/13 19:08		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		04/30/13 19:08		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		04/30/13 19:08		1
n-Hexane	1.0	U	1.0	0.26	ug/L		04/30/13 19:08		1
Styrene	1.0	U	1.0	0.11	ug/L		04/30/13 19:08		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		04/30/13 19:08		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		04/30/13 19:08		1
Toluene	1.0	U	1.0	0.13	ug/L		04/30/13 19:08		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 19:08		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		04/30/13 19:08		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 19:08		1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 19:08		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		04/30/13 19:08		1
Trichloroethene	1.0	U	1.0	0.17	ug/L		04/30/13 19:08		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		04/30/13 19:08		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		04/30/13 19:08		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		04/30/13 19:08		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		66 - 117		04/30/13 19:08	1
Dibromofluoromethane (Surr)	98		75 - 121		04/30/13 19:08	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-16
Date Collected: 04/23/13 15:50
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-16
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		63 - 129		04/30/13 19:08	1
Toluene-d8 (Surr)	90		74 - 115		04/30/13 19:08	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-11

Date Collected: 04/23/13 14:15

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-17

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.2	J	10	1.1	ug/L			05/02/13 12:09	1
Benzene	1.0	U	1.0	0.13	ug/L			05/02/13 12:09	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			05/02/13 12:09	1
Bromoform	1.0	U	1.0	0.64	ug/L			05/02/13 12:09	1
Bromomethane	1.0	U	1.0	0.41	ug/L			05/02/13 12:09	1
2-Butanone (MEK)	10	U	10	0.57	ug/L			05/02/13 12:09	1
Carbon disulfide	1.0	U	1.0	0.13	ug/L			05/02/13 12:09	1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L			05/02/13 12:09	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			05/02/13 12:09	1
Chloroethane	1.0	U	1.0	0.29	ug/L			05/02/13 12:09	1
Chloroform	1.0	U	1.0	0.16	ug/L			05/02/13 12:09	1
Chloromethane	1.0	U	1.0	0.30	ug/L			05/02/13 12:09	1
cis-1,2-Dichloroethene	2.4		1.0	0.17	ug/L			05/02/13 12:09	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L			05/02/13 12:09	1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L			05/02/13 12:09	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L			05/02/13 12:09	1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L			05/02/13 12:09	1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			05/02/13 12:09	1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L			05/02/13 12:09	1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			05/02/13 12:09	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			05/02/13 12:09	1
1,1-Dichloroethane	0.62	J	1.0	0.15	ug/L			05/02/13 12:09	1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L			05/02/13 12:09	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/02/13 12:09	1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L			05/02/13 12:09	1
Ethylbenzene	1.0	U	1.0	0.17	ug/L			05/02/13 12:09	1
2-Hexanone	10	U	10	0.41	ug/L			05/02/13 12:09	1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L			05/02/13 12:09	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			05/02/13 12:09	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L			05/02/13 12:09	1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L			05/02/13 12:09	1
n-Hexane	1.0	U	1.0	0.26	ug/L			05/02/13 12:09	1
Styrene	1.0	U	1.0	0.11	ug/L			05/02/13 12:09	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/02/13 12:09	1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L			05/02/13 12:09	1
Toluene	0.15	J	1.0	0.13	ug/L			05/02/13 12:09	1
trans-1,2-Dichloroethene	1.4		1.0	0.19	ug/L			05/02/13 12:09	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			05/02/13 12:09	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L			05/02/13 12:09	1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			05/02/13 12:09	1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L			05/02/13 12:09	1
Trichloroethene	1.2		1.0	0.17	ug/L			05/02/13 12:09	1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L			05/02/13 12:09	1
Vinyl chloride	1.0	U	1.0	0.22	ug/L			05/02/13 12:09	1
Xylenes, Total	0.37	J	2.0	0.28	ug/L			05/02/13 12:09	1
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86			66 - 117				05/02/13 12:09	1
Dibromofluoromethane (Surr)	87			75 - 121				05/02/13 12:09	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-11
Date Collected: 04/23/13 14:15
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-17
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	76		63 - 129		05/02/13 12:09	1
Toluene-d8 (Surr)	87		74 - 115		05/02/13 12:09	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	10	U	10	5.2	ug/L		04/29/13 11:39	05/02/13 17:34	50
Acenaphthylene	10	U	10	5.2	ug/L		04/29/13 11:39	05/02/13 17:34	50
Anthracene	10	U	10	5.2	ug/L		04/29/13 11:39	05/02/13 17:34	50
Benzo[a]anthracene	10	U	10	5.2	ug/L		04/29/13 11:39	05/02/13 17:34	50
Benzo[a]pyrene	10	U	10	5.2	ug/L		04/29/13 11:39	05/02/13 17:34	50
Benzo[b]fluoranthene	10	U	10	5.2	ug/L		04/29/13 11:39	05/02/13 17:34	50
Benzo[g,h,i]perylene	10	U	10	5.2	ug/L		04/29/13 11:39	05/02/13 17:34	50
Benzo[k]fluoranthene	10	U	10	5.2	ug/L		04/29/13 11:39	05/02/13 17:34	50
Chrysene	10	U	10	5.2	ug/L		04/29/13 11:39	05/02/13 17:34	50
Dibenz(a,h)anthracene	10	U	10	5.2	ug/L		04/29/13 11:39	05/02/13 17:34	50
Fluoranthene	10	U	10	5.2	ug/L		04/29/13 11:39	05/02/13 17:34	50
Fluorene	10	U	10	5.2	ug/L		04/29/13 11:39	05/02/13 17:34	50
Indeno[1,2,3-cd]pyrene	10	U	10	5.2	ug/L		04/29/13 11:39	05/02/13 17:34	50
2-Methylnaphthalene	10	U	10	5.2	ug/L		04/29/13 11:39	05/02/13 17:34	50
Naphthalene	10	U	10	5.2	ug/L		04/29/13 11:39	05/02/13 17:34	50
Phenanthrene	10	U	10	5.2	ug/L		04/29/13 11:39	05/02/13 17:34	50
Pyrene	10	U	10	5.2	ug/L		04/29/13 11:39	05/02/13 17:34	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	56		20 - 110		04/29/13 11:39	05/02/13 17:34
2-Fluorophenol (Surr)	0	X	10 - 110		04/29/13 11:39	05/02/13 17:34
Nitrobenzene-d5 (Surr)	50		21 - 110		04/29/13 11:39	05/02/13 17:34
Phenol-d5 (Surr)	55		21 - 110		04/29/13 11:39	05/02/13 17:34
Terphenyl-d14 (Surr)	46		24 - 110		04/29/13 11:39	05/02/13 17:34
2,4,6-Tribromophenol (Surr)	0	X	21 - 110		04/29/13 11:39	05/02/13 17:34

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-23

Date Collected: 04/23/13 12:30

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-18

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L			05/02/13 12:32	1
Benzene	1.0	U	1.0	0.13	ug/L			05/02/13 12:32	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			05/02/13 12:32	1
Bromoform	1.0	U	1.0	0.64	ug/L			05/02/13 12:32	1
Bromomethane	1.0	U	1.0	0.41	ug/L			05/02/13 12:32	1
2-Butanone (MEK)	10	U	10	0.57	ug/L			05/02/13 12:32	1
Carbon disulfide	1.0	U	1.0	0.13	ug/L			05/02/13 12:32	1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L			05/02/13 12:32	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			05/02/13 12:32	1
Chloroethane	1.0	U	1.0	0.29	ug/L			05/02/13 12:32	1
Chloroform	1.0	U	1.0	0.16	ug/L			05/02/13 12:32	1
Chloromethane	1.0	U	1.0	0.30	ug/L			05/02/13 12:32	1
cis-1,2-Dichloroethene	17		1.0	0.17	ug/L			05/02/13 12:32	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L			05/02/13 12:32	1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L			05/02/13 12:32	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L			05/02/13 12:32	1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L			05/02/13 12:32	1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			05/02/13 12:32	1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L			05/02/13 12:32	1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			05/02/13 12:32	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			05/02/13 12:32	1
1,1-Dichloroethane	1.1		1.0	0.15	ug/L			05/02/13 12:32	1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L			05/02/13 12:32	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/02/13 12:32	1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L			05/02/13 12:32	1
Ethylbenzene	1.0	U	1.0	0.17	ug/L			05/02/13 12:32	1
2-Hexanone	10	U	10	0.41	ug/L			05/02/13 12:32	1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L			05/02/13 12:32	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			05/02/13 12:32	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L			05/02/13 12:32	1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L			05/02/13 12:32	1
n-Hexane	1.0	U	1.0	0.26	ug/L			05/02/13 12:32	1
Styrene	1.0	U	1.0	0.11	ug/L			05/02/13 12:32	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/02/13 12:32	1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L			05/02/13 12:32	1
Toluene	1.0	U	1.0	0.13	ug/L			05/02/13 12:32	1
trans-1,2-Dichloroethene	2.4		1.0	0.19	ug/L			05/02/13 12:32	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			05/02/13 12:32	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L			05/02/13 12:32	1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			05/02/13 12:32	1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L			05/02/13 12:32	1
Trichloroethene	1.0	U	1.0	0.17	ug/L			05/02/13 12:32	1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L			05/02/13 12:32	1
Vinyl chloride	0.95	J	1.0	0.22	ug/L			05/02/13 12:32	1
Xylenes, Total	2.0	U	2.0	0.28	ug/L			05/02/13 12:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		66 - 117			
Dibromofluoromethane (Surr)	90		75 - 121			

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-23
Date Collected: 04/23/13 12:30
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-18
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	75		63 - 129		05/02/13 12:32	1
Toluene-d8 (Surr)	89		74 - 115		05/02/13 12:32	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-21

Date Collected: 04/23/13 15:15

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-19

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L		05/02/13 12:55		1
Benzene	1.0	U	1.0	0.13	ug/L		05/02/13 12:55		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		05/02/13 12:55		1
Bromoform	1.0	U	1.0	0.64	ug/L		05/02/13 12:55		1
Bromomethane	1.0	U	1.0	0.41	ug/L		05/02/13 12:55		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		05/02/13 12:55		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		05/02/13 12:55		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		05/02/13 12:55		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 12:55		1
Chloroethane	1.0	U	1.0	0.29	ug/L		05/02/13 12:55		1
Chloroform	1.0	U	1.0	0.16	ug/L		05/02/13 12:55		1
Chloromethane	1.0	U	1.0	0.30	ug/L		05/02/13 12:55		1
cis-1,2-Dichloroethene	0.98	J	1.0	0.17	ug/L		05/02/13 12:55		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		05/02/13 12:55		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		05/02/13 12:55		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		05/02/13 12:55		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		05/02/13 12:55		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 12:55		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		05/02/13 12:55		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 12:55		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		05/02/13 12:55		1
1,1-Dichloroethane	5.0		1.0	0.15	ug/L		05/02/13 12:55		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		05/02/13 12:55		1
1,1-Dichloroethene	0.23	J	1.0	0.19	ug/L		05/02/13 12:55		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		05/02/13 12:55		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		05/02/13 12:55		1
2-Hexanone	10	U	10	0.41	ug/L		05/02/13 12:55		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		05/02/13 12:55		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		05/02/13 12:55		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		05/02/13 12:55		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		05/02/13 12:55		1
n-Hexane	1.0	U	1.0	0.26	ug/L		05/02/13 12:55		1
Styrene	1.0	U	1.0	0.11	ug/L		05/02/13 12:55		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/02/13 12:55		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		05/02/13 12:55		1
Toluene	1.0	U	1.0	0.13	ug/L		05/02/13 12:55		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/02/13 12:55		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		05/02/13 12:55		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 12:55		1
1,1,1-Trichloroethane	0.43	J	1.0	0.22	ug/L		05/02/13 12:55		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		05/02/13 12:55		1
Trichloroethene	1.3		1.0	0.17	ug/L		05/02/13 12:55		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		05/02/13 12:55		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		05/02/13 12:55		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		05/02/13 12:55		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		66 - 117		05/02/13 12:55	1
Dibromofluoromethane (Surr)	93		75 - 121		05/02/13 12:55	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-21

Lab Sample ID: 240-23650-19

Date Collected: 04/23/13 15:15
Date Received: 04/25/13 11:00

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		63 - 129	05/02/13 12:55		1
Toluene-d8 (Surr)	90		74 - 115		05/02/13 12:55	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-7

Date Collected: 04/23/13 12:25

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-20

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L		05/02/13 13:40		1
Benzene	1.0	U	1.0	0.13	ug/L		05/02/13 13:40		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		05/02/13 13:40		1
Bromoform	1.0	U	1.0	0.64	ug/L		05/02/13 13:40		1
Bromomethane	1.0	U	1.0	0.41	ug/L		05/02/13 13:40		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		05/02/13 13:40		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		05/02/13 13:40		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		05/02/13 13:40		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 13:40		1
Chloroethane	1.0	U	1.0	0.29	ug/L		05/02/13 13:40		1
Chloroform	1.0	U	1.0	0.16	ug/L		05/02/13 13:40		1
Chloromethane	1.0	U	1.0	0.30	ug/L		05/02/13 13:40		1
cis-1,2-Dichloroethene	3.4		1.0	0.17	ug/L		05/02/13 13:40		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		05/02/13 13:40		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		05/02/13 13:40		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		05/02/13 13:40		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		05/02/13 13:40		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 13:40		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		05/02/13 13:40		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 13:40		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		05/02/13 13:40		1
1,1-Dichloroethane	3.3		1.0	0.15	ug/L		05/02/13 13:40		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		05/02/13 13:40		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/02/13 13:40		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		05/02/13 13:40		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		05/02/13 13:40		1
2-Hexanone	10	U	10	0.41	ug/L		05/02/13 13:40		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		05/02/13 13:40		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		05/02/13 13:40		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		05/02/13 13:40		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		05/02/13 13:40		1
n-Hexane	1.0	U	1.0	0.26	ug/L		05/02/13 13:40		1
Styrene	1.0	U	1.0	0.11	ug/L		05/02/13 13:40		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/02/13 13:40		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		05/02/13 13:40		1
Toluene	1.0	U	1.0	0.13	ug/L		05/02/13 13:40		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/02/13 13:40		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		05/02/13 13:40		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 13:40		1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L		05/02/13 13:40		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		05/02/13 13:40		1
Trichloroethene	1.0	U	1.0	0.17	ug/L		05/02/13 13:40		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		05/02/13 13:40		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		05/02/13 13:40		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		05/02/13 13:40		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		66 - 117		05/02/13 13:40	1
Dibromofluoromethane (Surr)	90		75 - 121		05/02/13 13:40	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-7
Date Collected: 04/23/13 12:25
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-20
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		63 - 129		05/02/13 13:40	1
Toluene-d8 (Surr)	90		74 - 115		05/02/13 13:40	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.22	U	0.22	0.11	ug/L		04/29/13 11:39	05/02/13 17:12	1
Acenaphthylene	0.22	U	0.22	0.11	ug/L		04/29/13 11:39	05/02/13 17:12	1
Anthracene	0.22	U	0.22	0.11	ug/L		04/29/13 11:39	05/02/13 17:12	1
Benzo[a]anthracene	0.22	U	0.22	0.11	ug/L		04/29/13 11:39	05/02/13 17:12	1
Benzo[a]pyrene	0.22	U	0.22	0.11	ug/L		04/29/13 11:39	05/02/13 17:12	1
Benzo[b]fluoranthene	0.22	U	0.22	0.11	ug/L		04/29/13 11:39	05/02/13 17:12	1
Benzo[g,h,i]perylene	0.22	U	0.22	0.11	ug/L		04/29/13 11:39	05/02/13 17:12	1
Benzo[k]fluoranthene	0.22	U	0.22	0.11	ug/L		04/29/13 11:39	05/02/13 17:12	1
Chrysene	0.22	U	0.22	0.11	ug/L		04/29/13 11:39	05/02/13 17:12	1
Dibenz(a,h)anthracene	0.22	U	0.22	0.11	ug/L		04/29/13 11:39	05/02/13 17:12	1
Fluoranthene	0.22	U	0.22	0.11	ug/L		04/29/13 11:39	05/02/13 17:12	1
Fluorene	0.22	U	0.22	0.11	ug/L		04/29/13 11:39	05/02/13 17:12	1
Indeno[1,2,3-cd]pyrene	0.22	U	0.22	0.11	ug/L		04/29/13 11:39	05/02/13 17:12	1
2-Methylnaphthalene	0.22	U	0.22	0.11	ug/L		04/29/13 11:39	05/02/13 17:12	1
Naphthalene	0.22	U	0.22	0.11	ug/L		04/29/13 11:39	05/02/13 17:12	1
Phenanthrene	0.22	U	0.22	0.11	ug/L		04/29/13 11:39	05/02/13 17:12	1
Pyrene	0.18	J	0.22	0.11	ug/L		04/29/13 11:39	05/02/13 17:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	49		20 - 110		05/02/13 17:12	1
2-Fluorophenol (Surr)	54		10 - 110		05/02/13 17:12	1
Nitrobenzene-d5 (Surr)	51		21 - 110		05/02/13 17:12	1
Phenol-d5 (Surr)	57		21 - 110		05/02/13 17:12	1
Terphenyl-d14 (Surr)	41		24 - 110		05/02/13 17:12	1
2,4,6-Tribromophenol (Surr)	66		21 - 110		05/02/13 17:12	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-21D

Date Collected: 04/23/13 15:15

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-21

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L		05/02/13 14:03		1
Benzene	1.0	U	1.0	0.13	ug/L		05/02/13 14:03		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		05/02/13 14:03		1
Bromoform	1.0	U	1.0	0.64	ug/L		05/02/13 14:03		1
Bromomethane	1.0	U	1.0	0.41	ug/L		05/02/13 14:03		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		05/02/13 14:03		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		05/02/13 14:03		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		05/02/13 14:03		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 14:03		1
Chloroethane	1.0	U	1.0	0.29	ug/L		05/02/13 14:03		1
Chloroform	1.0	U	1.0	0.16	ug/L		05/02/13 14:03		1
Chloromethane	1.0	U	1.0	0.30	ug/L		05/02/13 14:03		1
cis-1,2-Dichloroethene	1.0		1.0	0.17	ug/L		05/02/13 14:03		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		05/02/13 14:03		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		05/02/13 14:03		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		05/02/13 14:03		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		05/02/13 14:03		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 14:03		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		05/02/13 14:03		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 14:03		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		05/02/13 14:03		1
1,1-Dichloroethane	4.9		1.0	0.15	ug/L		05/02/13 14:03		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		05/02/13 14:03		1
1,1-Dichloroethene	0.37 J		1.0	0.19	ug/L		05/02/13 14:03		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		05/02/13 14:03		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		05/02/13 14:03		1
2-Hexanone	10	U	10	0.41	ug/L		05/02/13 14:03		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		05/02/13 14:03		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		05/02/13 14:03		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		05/02/13 14:03		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		05/02/13 14:03		1
n-Hexane	1.0	U	1.0	0.26	ug/L		05/02/13 14:03		1
Styrene	1.0	U	1.0	0.11	ug/L		05/02/13 14:03		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/02/13 14:03		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		05/02/13 14:03		1
Toluene	1.0	U	1.0	0.13	ug/L		05/02/13 14:03		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/02/13 14:03		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		05/02/13 14:03		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 14:03		1
1,1,1-Trichloroethane	0.53 J		1.0	0.22	ug/L		05/02/13 14:03		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		05/02/13 14:03		1
Trichloroethene	1.3		1.0	0.17	ug/L		05/02/13 14:03		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		05/02/13 14:03		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		05/02/13 14:03		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		05/02/13 14:03		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	88		66 - 117				05/02/13 14:03		1
Dibromofluoromethane (Surr)	92		75 - 121				05/02/13 14:03		1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-21D
Date Collected: 04/23/13 15:15
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-21
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		63 - 129	05/02/13 14:03	05/02/13 14:03	1
Toluene-d8 (Surr)	89		74 - 115			

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: FW-9

Date Collected: 04/24/13 15:40

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-22

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L		05/02/13 14:25		1
Benzene	1.0	U	1.0	0.13	ug/L		05/02/13 14:25		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		05/02/13 14:25		1
Bromoform	1.0	U	1.0	0.64	ug/L		05/02/13 14:25		1
Bromomethane	1.0	U	1.0	0.41	ug/L		05/02/13 14:25		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		05/02/13 14:25		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		05/02/13 14:25		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		05/02/13 14:25		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 14:25		1
Chloroethane	1.0	U	1.0	0.29	ug/L		05/02/13 14:25		1
Chloroform	1.0	U	1.0	0.16	ug/L		05/02/13 14:25		1
Chloromethane	1.0	U	1.0	0.30	ug/L		05/02/13 14:25		1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L		05/02/13 14:25		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		05/02/13 14:25		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		05/02/13 14:25		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		05/02/13 14:25		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		05/02/13 14:25		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 14:25		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		05/02/13 14:25		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 14:25		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		05/02/13 14:25		1
1,1-Dichloroethane	0.27	J	1.0	0.15	ug/L		05/02/13 14:25		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		05/02/13 14:25		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/02/13 14:25		1
1,2-Dichloropropane	1.0	U	1.0	0.18	ug/L		05/02/13 14:25		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		05/02/13 14:25		1
2-Hexanone	10	U	10	0.41	ug/L		05/02/13 14:25		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		05/02/13 14:25		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		05/02/13 14:25		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		05/02/13 14:25		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		05/02/13 14:25		1
n-Hexane	1.0	U	1.0	0.26	ug/L		05/02/13 14:25		1
Styrene	1.0	U	1.0	0.11	ug/L		05/02/13 14:25		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/02/13 14:25		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		05/02/13 14:25		1
Toluene	1.0	U	1.0	0.13	ug/L		05/02/13 14:25		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/02/13 14:25		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		05/02/13 14:25		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 14:25		1
1,1,1-Trichloroethane	0.85	J	1.0	0.22	ug/L		05/02/13 14:25		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		05/02/13 14:25		1
Trichloroethene	7.4		1.0	0.17	ug/L		05/02/13 14:25		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		05/02/13 14:25		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		05/02/13 14:25		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		05/02/13 14:25		1
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85			66 - 117			05/02/13 14:25		1
Dibromofluoromethane (Surr)	94			75 - 121			05/02/13 14:25		1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: FW-9

Lab Sample ID: 240-23650-22

Date Collected: 04/24/13 15:40
Date Received: 04/25/13 11:00

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		63 - 129		05/02/13 14:25	1
Toluene-d8 (Surr)	91		74 - 115		05/02/13 14:25	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-19

Date Collected: 04/24/13 12:40

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-23

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	20	U	20	2.2	ug/L		05/02/13 14:48		2
Benzene	2.0	U	2.0	0.26	ug/L		05/02/13 14:48		2
Bromodichloromethane	2.0	U	2.0	0.30	ug/L		05/02/13 14:48		2
Bromoform	2.0	U	2.0	1.3	ug/L		05/02/13 14:48		2
Bromomethane	2.0	U	2.0	0.82	ug/L		05/02/13 14:48		2
2-Butanone (MEK)	20	U	20	1.1	ug/L		05/02/13 14:48		2
Carbon disulfide	2.0	U	2.0	0.26	ug/L		05/02/13 14:48		2
Carbon tetrachloride	2.0	U	2.0	0.26	ug/L		05/02/13 14:48		2
Chlorobenzene	2.0	U	2.0	0.30	ug/L		05/02/13 14:48		2
Chloroethane	2.0	U	2.0	0.58	ug/L		05/02/13 14:48		2
Chloroform	2.0	U	2.0	0.32	ug/L		05/02/13 14:48		2
Chloromethane	2.0	U	2.0	0.60	ug/L		05/02/13 14:48		2
cis-1,2-Dichloroethene	3.6		2.0	0.34	ug/L		05/02/13 14:48		2
cis-1,3-Dichloropropene	2.0	U	2.0	0.28	ug/L		05/02/13 14:48		2
Dibromochloromethane	2.0	U	2.0	0.36	ug/L		05/02/13 14:48		2
1,2-Dibromo-3-Chloropropane	4.0	U	4.0	1.3	ug/L		05/02/13 14:48		2
1,2-Dibromoethane	2.0	U	2.0	0.48	ug/L		05/02/13 14:48		2
1,2-Dichlorobenzene	2.0	U	2.0	0.26	ug/L		05/02/13 14:48		2
1,3-Dichlorobenzene	2.0	U	2.0	0.28	ug/L		05/02/13 14:48		2
1,4-Dichlorobenzene	2.0	U	2.0	0.26	ug/L		05/02/13 14:48		2
Dichlorodifluoromethane	2.0	U	2.0	0.62	ug/L		05/02/13 14:48		2
1,1-Dichloroethane	0.86 J		2.0	0.30	ug/L		05/02/13 14:48		2
1,2-Dichloroethane	2.0	U	2.0	0.44	ug/L		05/02/13 14:48		2
1,1-Dichloroethene	0.49 J		2.0	0.38	ug/L		05/02/13 14:48		2
1,2-Dichloropropene	2.0	U	2.0	0.36	ug/L		05/02/13 14:48		2
Ethylbenzene	2.0	U	2.0	0.34	ug/L		05/02/13 14:48		2
2-Hexanone	20	U	20	0.82	ug/L		05/02/13 14:48		2
Isopropylbenzene	2.0	U	2.0	0.26	ug/L		05/02/13 14:48		2
Methylene Chloride	2.0	U	2.0	0.66	ug/L		05/02/13 14:48		2
4-Methyl-2-pentanone (MIBK)	20	U	20	0.64	ug/L		05/02/13 14:48		2
Methyl tert-butyl ether	2.0	U	2.0	0.34	ug/L		05/02/13 14:48		2
n-Hexane	2.0	U	2.0	0.52	ug/L		05/02/13 14:48		2
Styrene	2.0	U	2.0	0.22	ug/L		05/02/13 14:48		2
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.36	ug/L		05/02/13 14:48		2
Tetrachloroethene	2.0	U	2.0	0.58	ug/L		05/02/13 14:48		2
Toluene	2.0	U	2.0	0.26	ug/L		05/02/13 14:48		2
trans-1,2-Dichloroethene	0.51 J		2.0	0.38	ug/L		05/02/13 14:48		2
trans-1,3-Dichloropropene	2.0	U	2.0	0.38	ug/L		05/02/13 14:48		2
1,2,4-Trichlorobenzene	2.0	U	2.0	0.30	ug/L		05/02/13 14:48		2
1,1,1-Trichloroethane	5.9		2.0	0.44	ug/L		05/02/13 14:48		2
1,1,2-Trichloroethane	2.0	U	2.0	0.54	ug/L		05/02/13 14:48		2
Trichloroethene	43		2.0	0.34	ug/L		05/02/13 14:48		2
Trichlorofluoromethane	2.0	U	2.0	0.42	ug/L		05/02/13 14:48		2
Vinyl chloride	2.0	U	2.0	0.44	ug/L		05/02/13 14:48		2
Xylenes, Total	4.0	U	4.0	0.56	ug/L		05/02/13 14:48		2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		66 - 117		05/02/13 14:48	2
Dibromofluoromethane (Surr)	90		75 - 121		05/02/13 14:48	2

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-19
Date Collected: 04/24/13 12:40
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-23
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		63 - 129	05/02/13 14:48		2
Toluene-d8 (Surr)	93		74 - 115		05/02/13 14:48	2

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-45

Date Collected: 04/24/13 11:05

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-24

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L		05/02/13 15:11		1
Benzene	1.0	U	1.0	0.13	ug/L		05/02/13 15:11		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		05/02/13 15:11		1
Bromoform	1.0	U	1.0	0.64	ug/L		05/02/13 15:11		1
Bromomethane	1.0	U	1.0	0.41	ug/L		05/02/13 15:11		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		05/02/13 15:11		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		05/02/13 15:11		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		05/02/13 15:11		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 15:11		1
Chloroethane	1.0	U	1.0	0.29	ug/L		05/02/13 15:11		1
Chloroform	1.0	U	1.0	0.16	ug/L		05/02/13 15:11		1
Chloromethane	1.0	U	1.0	0.30	ug/L		05/02/13 15:11		1
cis-1,2-Dichloroethene	2.2		1.0	0.17	ug/L		05/02/13 15:11		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		05/02/13 15:11		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		05/02/13 15:11		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		05/02/13 15:11		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		05/02/13 15:11		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 15:11		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		05/02/13 15:11		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 15:11		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		05/02/13 15:11		1
1,1-Dichloroethane	0.28 J		1.0	0.15	ug/L		05/02/13 15:11		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		05/02/13 15:11		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/02/13 15:11		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		05/02/13 15:11		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		05/02/13 15:11		1
2-Hexanone	10	U	10	0.41	ug/L		05/02/13 15:11		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		05/02/13 15:11		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		05/02/13 15:11		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		05/02/13 15:11		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		05/02/13 15:11		1
n-Hexane	1.0	U	1.0	0.26	ug/L		05/02/13 15:11		1
Styrene	1.0	U	1.0	0.11	ug/L		05/02/13 15:11		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/02/13 15:11		1
Tetrachloroethene	0.29 J		1.0	0.29	ug/L		05/02/13 15:11		1
Toluene	1.0	U	1.0	0.13	ug/L		05/02/13 15:11		1
trans-1,2-Dichloroethene	0.27 J		1.0	0.19	ug/L		05/02/13 15:11		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		05/02/13 15:11		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 15:11		1
1,1,1-Trichloroethane	0.70 J		1.0	0.22	ug/L		05/02/13 15:11		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		05/02/13 15:11		1
Trichloroethene	3.5		1.0	0.17	ug/L		05/02/13 15:11		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		05/02/13 15:11		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		05/02/13 15:11		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		05/02/13 15:11		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	87		66 - 117				05/02/13 15:11		1
Dibromofluoromethane (Surr)	91		75 - 121				05/02/13 15:11		1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-45
Date Collected: 04/24/13 11:05
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-24
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		63 - 129		05/02/13 15:11	1
Toluene-d8 (Surr)	90		74 - 115		05/02/13 15:11	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-43

Date Collected: 04/24/13 09:45

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-25

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L		05/02/13 15:33		1
Benzene	1.0	U	1.0	0.13	ug/L		05/02/13 15:33		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		05/02/13 15:33		1
Bromoform	1.0	U	1.0	0.64	ug/L		05/02/13 15:33		1
Bromomethane	1.0	U	1.0	0.41	ug/L		05/02/13 15:33		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		05/02/13 15:33		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		05/02/13 15:33		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		05/02/13 15:33		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 15:33		1
Chloroethane	1.0	U	1.0	0.29	ug/L		05/02/13 15:33		1
Chloroform	1.0	U	1.0	0.16	ug/L		05/02/13 15:33		1
Chloromethane	1.0	U	1.0	0.30	ug/L		05/02/13 15:33		1
cis-1,2-Dichloroethene	8.3		1.0	0.17	ug/L		05/02/13 15:33		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		05/02/13 15:33		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		05/02/13 15:33		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		05/02/13 15:33		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		05/02/13 15:33		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 15:33		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		05/02/13 15:33		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 15:33		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		05/02/13 15:33		1
1,1-Dichloroethane	0.81 J		1.0	0.15	ug/L		05/02/13 15:33		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		05/02/13 15:33		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/02/13 15:33		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		05/02/13 15:33		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		05/02/13 15:33		1
2-Hexanone	10	U	10	0.41	ug/L		05/02/13 15:33		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		05/02/13 15:33		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		05/02/13 15:33		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		05/02/13 15:33		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		05/02/13 15:33		1
n-Hexane	1.0	U	1.0	0.26	ug/L		05/02/13 15:33		1
Styrene	1.0	U	1.0	0.11	ug/L		05/02/13 15:33		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/02/13 15:33		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		05/02/13 15:33		1
Toluene	1.0	U	1.0	0.13	ug/L		05/02/13 15:33		1
trans-1,2-Dichloroethene	0.51 J		1.0	0.19	ug/L		05/02/13 15:33		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		05/02/13 15:33		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 15:33		1
1,1,1-Trichloroethane	0.79 J		1.0	0.22	ug/L		05/02/13 15:33		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		05/02/13 15:33		1
Trichloroethene	8.2		1.0	0.17	ug/L		05/02/13 15:33		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		05/02/13 15:33		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		05/02/13 15:33		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		05/02/13 15:33		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	89		66 - 117				05/02/13 15:33		1
Dibromofluoromethane (Surr)	94		75 - 121				05/02/13 15:33		1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-43
Date Collected: 04/24/13 09:45
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-25
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		63 - 129		05/02/13 15:33	1
Toluene-d8 (Surr)	90		74 - 115		05/02/13 15:33	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-35

Date Collected: 04/23/13 17:50

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-26

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L		05/02/13 15:56		1
Benzene	1.0	U	1.0	0.13	ug/L		05/02/13 15:56		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		05/02/13 15:56		1
Bromoform	1.0	U	1.0	0.64	ug/L		05/02/13 15:56		1
Bromomethane	1.0	U	1.0	0.41	ug/L		05/02/13 15:56		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		05/02/13 15:56		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		05/02/13 15:56		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		05/02/13 15:56		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 15:56		1
Chloroethane	1.0	U	1.0	0.29	ug/L		05/02/13 15:56		1
Chloroform	1.0	U	1.0	0.16	ug/L		05/02/13 15:56		1
Chloromethane	1.0	U	1.0	0.30	ug/L		05/02/13 15:56		1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L		05/02/13 15:56		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		05/02/13 15:56		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		05/02/13 15:56		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		05/02/13 15:56		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		05/02/13 15:56		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 15:56		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		05/02/13 15:56		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 15:56		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		05/02/13 15:56		1
1,1-Dichloroethane	1.0	U	1.0	0.15	ug/L		05/02/13 15:56		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		05/02/13 15:56		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/02/13 15:56		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		05/02/13 15:56		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		05/02/13 15:56		1
2-Hexanone	10	U	10	0.41	ug/L		05/02/13 15:56		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		05/02/13 15:56		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		05/02/13 15:56		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		05/02/13 15:56		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		05/02/13 15:56		1
n-Hexane	1.0	U	1.0	0.26	ug/L		05/02/13 15:56		1
Styrene	1.0	U	1.0	0.11	ug/L		05/02/13 15:56		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/02/13 15:56		1
Tetrachloroethene	0.58	J	1.0	0.29	ug/L		05/02/13 15:56		1
Toluene	1.0	U	1.0	0.13	ug/L		05/02/13 15:56		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/02/13 15:56		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		05/02/13 15:56		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 15:56		1
1,1,1-Trichloroethane	3.9		1.0	0.22	ug/L		05/02/13 15:56		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		05/02/13 15:56		1
Trichloroethene	23		1.0	0.17	ug/L		05/02/13 15:56		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		05/02/13 15:56		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		05/02/13 15:56		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		05/02/13 15:56		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		66 - 117		05/02/13 15:56	1
Dibromofluoromethane (Surr)	95		75 - 121		05/02/13 15:56	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-35
Date Collected: 04/23/13 17:50
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-26
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		63 - 129		05/02/13 15:56	1
Toluene-d8 (Surr)	88		74 - 115		05/02/13 15:56	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-20

Date Collected: 04/23/13 16:40

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-27

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.5	J	10	1.1	ug/L		05/02/13 16:19		1
Benzene	1.0	U	1.0	0.13	ug/L		05/02/13 16:19		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		05/02/13 16:19		1
Bromoform	1.0	U	1.0	0.64	ug/L		05/02/13 16:19		1
Bromomethane	1.0	U	1.0	0.41	ug/L		05/02/13 16:19		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		05/02/13 16:19		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		05/02/13 16:19		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		05/02/13 16:19		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 16:19		1
Chloroethane	1.0	U	1.0	0.29	ug/L		05/02/13 16:19		1
Chloroform	1.0	U	1.0	0.16	ug/L		05/02/13 16:19		1
Chloromethane	1.0	U	1.0	0.30	ug/L		05/02/13 16:19		1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L		05/02/13 16:19		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		05/02/13 16:19		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		05/02/13 16:19		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		05/02/13 16:19		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		05/02/13 16:19		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 16:19		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		05/02/13 16:19		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 16:19		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		05/02/13 16:19		1
1,1-Dichloroethane	1.0	U	1.0	0.15	ug/L		05/02/13 16:19		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		05/02/13 16:19		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/02/13 16:19		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		05/02/13 16:19		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		05/02/13 16:19		1
2-Hexanone	10	U	10	0.41	ug/L		05/02/13 16:19		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		05/02/13 16:19		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		05/02/13 16:19		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		05/02/13 16:19		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		05/02/13 16:19		1
n-Hexane	1.0	U	1.0	0.26	ug/L		05/02/13 16:19		1
Styrene	1.0	U	1.0	0.11	ug/L		05/02/13 16:19		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/02/13 16:19		1
Tetrachloroethene	12		1.0	0.29	ug/L		05/02/13 16:19		1
Toluene	1.0	U	1.0	0.13	ug/L		05/02/13 16:19		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/02/13 16:19		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		05/02/13 16:19		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 16:19		1
1,1,1-Trichloroethane	0.40	J	1.0	0.22	ug/L		05/02/13 16:19		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		05/02/13 16:19		1
Trichloroethene	1.2		1.0	0.17	ug/L		05/02/13 16:19		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		05/02/13 16:19		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		05/02/13 16:19		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		05/02/13 16:19		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		66 - 117		05/02/13 16:19	1
Dibromofluoromethane (Surr)	94		75 - 121		05/02/13 16:19	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-20

Lab Sample ID: 240-23650-27

Date Collected: 04/23/13 16:40
Date Received: 04/25/13 11:00

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		63 - 129	05/02/13 16:19		1
Toluene-d8 (Surr)	88		74 - 115		05/02/13 16:19	1

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Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-14

Date Collected: 04/24/13 12:30

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-28

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L		05/02/13 16:42		1
Benzene	1.0	U	1.0	0.13	ug/L		05/02/13 16:42		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		05/02/13 16:42		1
Bromoform	1.0	U	1.0	0.64	ug/L		05/02/13 16:42		1
Bromomethane	1.0	U	1.0	0.41	ug/L		05/02/13 16:42		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		05/02/13 16:42		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		05/02/13 16:42		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		05/02/13 16:42		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 16:42		1
Chloroethane	1.0	U	1.0	0.29	ug/L		05/02/13 16:42		1
Chloroform	1.0	U	1.0	0.16	ug/L		05/02/13 16:42		1
Chloromethane	1.0	U	1.0	0.30	ug/L		05/02/13 16:42		1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L		05/02/13 16:42		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		05/02/13 16:42		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		05/02/13 16:42		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		05/02/13 16:42		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		05/02/13 16:42		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 16:42		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		05/02/13 16:42		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 16:42		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		05/02/13 16:42		1
1,1-Dichloroethane	0.65	J	1.0	0.15	ug/L		05/02/13 16:42		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		05/02/13 16:42		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/02/13 16:42		1
1,2-Dichloropropane	1.0	U	1.0	0.18	ug/L		05/02/13 16:42		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		05/02/13 16:42		1
2-Hexanone	10	U	10	0.41	ug/L		05/02/13 16:42		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		05/02/13 16:42		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		05/02/13 16:42		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		05/02/13 16:42		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		05/02/13 16:42		1
n-Hexane	1.0	U	1.0	0.26	ug/L		05/02/13 16:42		1
Styrene	1.0	U	1.0	0.11	ug/L		05/02/13 16:42		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/02/13 16:42		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		05/02/13 16:42		1
Toluene	1.0	U	1.0	0.13	ug/L		05/02/13 16:42		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/02/13 16:42		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		05/02/13 16:42		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 16:42		1
1,1,1-Trichloroethane	1.3		1.0	0.22	ug/L		05/02/13 16:42		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		05/02/13 16:42		1
Trichloroethene	3.2		1.0	0.17	ug/L		05/02/13 16:42		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		05/02/13 16:42		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		05/02/13 16:42		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		05/02/13 16:42		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		66 - 117		05/02/13 16:42	1
Dibromofluoromethane (Surr)	92		75 - 121		05/02/13 16:42	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-14
Date Collected: 04/24/13 12:30
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-28
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		63 - 129		05/02/13 16:42	1
Toluene-d8 (Surr)	89		74 - 115		05/02/13 16:42	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-23

Date Collected: 04/25/13 09:30

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-29

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L		05/02/13 17:05		1
Benzene	1.0	U	1.0	0.13	ug/L		05/02/13 17:05		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		05/02/13 17:05		1
Bromoform	1.0	U	1.0	0.64	ug/L		05/02/13 17:05		1
Bromomethane	1.0	U	1.0	0.41	ug/L		05/02/13 17:05		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		05/02/13 17:05		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		05/02/13 17:05		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		05/02/13 17:05		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 17:05		1
Chloroethane	1.0	U	1.0	0.29	ug/L		05/02/13 17:05		1
Chloroform	1.0	U	1.0	0.16	ug/L		05/02/13 17:05		1
Chloromethane	1.0	U	1.0	0.30	ug/L		05/02/13 17:05		1
cis-1,2-Dichloroethene	2.5		1.0	0.17	ug/L		05/02/13 17:05		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		05/02/13 17:05		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		05/02/13 17:05		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		05/02/13 17:05		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		05/02/13 17:05		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 17:05		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		05/02/13 17:05		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 17:05		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		05/02/13 17:05		1
1,1-Dichloroethane	0.91 J		1.0	0.15	ug/L		05/02/13 17:05		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		05/02/13 17:05		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/02/13 17:05		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		05/02/13 17:05		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		05/02/13 17:05		1
2-Hexanone	10	U	10	0.41	ug/L		05/02/13 17:05		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		05/02/13 17:05		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		05/02/13 17:05		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		05/02/13 17:05		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		05/02/13 17:05		1
n-Hexane	1.0	U	1.0	0.26	ug/L		05/02/13 17:05		1
Styrene	1.0	U	1.0	0.11	ug/L		05/02/13 17:05		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/02/13 17:05		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		05/02/13 17:05		1
Toluene	1.0	U	1.0	0.13	ug/L		05/02/13 17:05		1
trans-1,2-Dichloroethene	0.33 J		1.0	0.19	ug/L		05/02/13 17:05		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		05/02/13 17:05		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 17:05		1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L		05/02/13 17:05		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		05/02/13 17:05		1
Trichloroethene	19		1.0	0.17	ug/L		05/02/13 17:05		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		05/02/13 17:05		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		05/02/13 17:05		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		05/02/13 17:05		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		66 - 117		05/02/13 17:05	1
Dibromofluoromethane (Surr)	90		75 - 121		05/02/13 17:05	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-23
Date Collected: 04/25/13 09:30
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-29
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		63 - 129	05/02/13 17:05	05/02/13 17:05	1
Toluene-d8 (Surr)	87		74 - 115			1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-22

Date Collected: 04/25/13 09:35

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-30

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L		05/02/13 17:27		1
Benzene	1.0	U	1.0	0.13	ug/L		05/02/13 17:27		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		05/02/13 17:27		1
Bromoform	1.0	U	1.0	0.64	ug/L		05/02/13 17:27		1
Bromomethane	1.0	U	1.0	0.41	ug/L		05/02/13 17:27		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		05/02/13 17:27		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		05/02/13 17:27		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		05/02/13 17:27		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 17:27		1
Chloroethane	1.0	U	1.0	0.29	ug/L		05/02/13 17:27		1
Chloroform	1.0	U	1.0	0.16	ug/L		05/02/13 17:27		1
Chloromethane	1.0	U	1.0	0.30	ug/L		05/02/13 17:27		1
cis-1,2-Dichloroethene	2.8		1.0	0.17	ug/L		05/02/13 17:27		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		05/02/13 17:27		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		05/02/13 17:27		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		05/02/13 17:27		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		05/02/13 17:27		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 17:27		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		05/02/13 17:27		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 17:27		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		05/02/13 17:27		1
1,1-Dichloroethane	2.0		1.0	0.15	ug/L		05/02/13 17:27		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		05/02/13 17:27		1
1,1-Dichloroethene	0.21 J		1.0	0.19	ug/L		05/02/13 17:27		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		05/02/13 17:27		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		05/02/13 17:27		1
2-Hexanone	10	U	10	0.41	ug/L		05/02/13 17:27		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		05/02/13 17:27		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		05/02/13 17:27		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		05/02/13 17:27		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		05/02/13 17:27		1
n-Hexane	1.0	U	1.0	0.26	ug/L		05/02/13 17:27		1
Styrene	1.0	U	1.0	0.11	ug/L		05/02/13 17:27		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/02/13 17:27		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		05/02/13 17:27		1
Toluene	1.0	U	1.0	0.13	ug/L		05/02/13 17:27		1
trans-1,2-Dichloroethene	0.20 J		1.0	0.19	ug/L		05/02/13 17:27		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		05/02/13 17:27		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 17:27		1
1,1,1-Trichloroethane	2.0		1.0	0.22	ug/L		05/02/13 17:27		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		05/02/13 17:27		1
Trichloroethene	24		1.0	0.17	ug/L		05/02/13 17:27		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		05/02/13 17:27		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		05/02/13 17:27		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		05/02/13 17:27		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	85		66 - 117				05/02/13 17:27		1
Dibromofluoromethane (Surr)	94		75 - 121				05/02/13 17:27		1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-22
Date Collected: 04/25/13 09:35
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-30
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		63 - 129	05/02/13 17:27		1
Toluene-d8 (Surr)	88		74 - 115		05/02/13 17:27	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-38

Date Collected: 04/24/13 15:30

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-31

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L		05/02/13 17:50		1
Benzene	1.0	U	1.0	0.13	ug/L		05/02/13 17:50		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		05/02/13 17:50		1
Bromoform	1.0	U	1.0	0.64	ug/L		05/02/13 17:50		1
Bromomethane	1.0	U	1.0	0.41	ug/L		05/02/13 17:50		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		05/02/13 17:50		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		05/02/13 17:50		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		05/02/13 17:50		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 17:50		1
Chloroethane	1.0	U	1.0	0.29	ug/L		05/02/13 17:50		1
Chloroform	1.0	U	1.0	0.16	ug/L		05/02/13 17:50		1
Chloromethane	1.0	U	1.0	0.30	ug/L		05/02/13 17:50		1
cis-1,2-Dichloroethene	4.2		1.0	0.17	ug/L		05/02/13 17:50		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		05/02/13 17:50		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		05/02/13 17:50		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		05/02/13 17:50		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		05/02/13 17:50		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 17:50		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		05/02/13 17:50		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 17:50		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		05/02/13 17:50		1
1,1-Dichloroethane	3.5		1.0	0.15	ug/L		05/02/13 17:50		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		05/02/13 17:50		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/02/13 17:50		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		05/02/13 17:50		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		05/02/13 17:50		1
2-Hexanone	10	U	10	0.41	ug/L		05/02/13 17:50		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		05/02/13 17:50		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		05/02/13 17:50		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		05/02/13 17:50		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		05/02/13 17:50		1
n-Hexane	1.0	U	1.0	0.26	ug/L		05/02/13 17:50		1
Styrene	1.0	U	1.0	0.11	ug/L		05/02/13 17:50		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/02/13 17:50		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		05/02/13 17:50		1
Toluene	1.0	U	1.0	0.13	ug/L		05/02/13 17:50		1
trans-1,2-Dichloroethene	1.6		1.0	0.19	ug/L		05/02/13 17:50		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		05/02/13 17:50		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 17:50		1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L		05/02/13 17:50		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		05/02/13 17:50		1
Trichloroethene	4.6		1.0	0.17	ug/L		05/02/13 17:50		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		05/02/13 17:50		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		05/02/13 17:50		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		05/02/13 17:50		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		66 - 117		05/02/13 17:50	1
Dibromofluoromethane (Surr)	90		75 - 121		05/02/13 17:50	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-38
Date Collected: 04/24/13 15:30
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-31
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		63 - 129	05/02/13 17:50		1
Toluene-d8 (Surr)	89		74 - 115		05/02/13 17:50	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-13

Date Collected: 04/24/13 17:35

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-32

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L		05/02/13 18:13		1
Benzene	1.0	U	1.0	0.13	ug/L		05/02/13 18:13		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		05/02/13 18:13		1
Bromoform	1.0	U	1.0	0.64	ug/L		05/02/13 18:13		1
Bromomethane	1.0	U	1.0	0.41	ug/L		05/02/13 18:13		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		05/02/13 18:13		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		05/02/13 18:13		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		05/02/13 18:13		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 18:13		1
Chloroethane	1.0	U	1.0	0.29	ug/L		05/02/13 18:13		1
Chloroform	1.0	U	1.0	0.16	ug/L		05/02/13 18:13		1
Chloromethane	1.0	U	1.0	0.30	ug/L		05/02/13 18:13		1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L		05/02/13 18:13		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		05/02/13 18:13		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		05/02/13 18:13		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		05/02/13 18:13		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		05/02/13 18:13		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 18:13		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		05/02/13 18:13		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 18:13		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		05/02/13 18:13		1
1,1-Dichloroethane	1.0	U	1.0	0.15	ug/L		05/02/13 18:13		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		05/02/13 18:13		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/02/13 18:13		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		05/02/13 18:13		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		05/02/13 18:13		1
2-Hexanone	10	U	10	0.41	ug/L		05/02/13 18:13		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		05/02/13 18:13		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		05/02/13 18:13		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		05/02/13 18:13		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		05/02/13 18:13		1
n-Hexane	1.0	U	1.0	0.26	ug/L		05/02/13 18:13		1
Styrene	1.0	U	1.0	0.11	ug/L		05/02/13 18:13		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/02/13 18:13		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		05/02/13 18:13		1
Toluene	1.0	U	1.0	0.13	ug/L		05/02/13 18:13		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/02/13 18:13		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		05/02/13 18:13		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 18:13		1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L		05/02/13 18:13		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		05/02/13 18:13		1
Trichloroethene	0.40	J	1.0	0.17	ug/L		05/02/13 18:13		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		05/02/13 18:13		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		05/02/13 18:13		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		05/02/13 18:13		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		66 - 117		05/02/13 18:13	1
Dibromofluoromethane (Surr)	91		75 - 121		05/02/13 18:13	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-13
Date Collected: 04/24/13 17:35
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-32
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		63 - 129		05/02/13 18:13	1
Toluene-d8 (Surr)	88		74 - 115		05/02/13 18:13	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-34

Date Collected: 04/23/13 18:10

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-33

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.1	J	10	1.1	ug/L		05/02/13 18:36		1
Benzene	1.0	U	1.0	0.13	ug/L		05/02/13 18:36		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		05/02/13 18:36		1
Bromoform	1.0	U	1.0	0.64	ug/L		05/02/13 18:36		1
Bromomethane	1.0	U	1.0	0.41	ug/L		05/02/13 18:36		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		05/02/13 18:36		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		05/02/13 18:36		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		05/02/13 18:36		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 18:36		1
Chloroethane	1.0	U	1.0	0.29	ug/L		05/02/13 18:36		1
Chloroform	1.0	U	1.0	0.16	ug/L		05/02/13 18:36		1
Chloromethane	1.0	U	1.0	0.30	ug/L		05/02/13 18:36		1
cis-1,2-Dichloroethene	3.1		1.0	0.17	ug/L		05/02/13 18:36		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		05/02/13 18:36		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		05/02/13 18:36		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		05/02/13 18:36		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		05/02/13 18:36		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 18:36		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		05/02/13 18:36		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 18:36		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		05/02/13 18:36		1
1,1-Dichloroethane	0.68	J	1.0	0.15	ug/L		05/02/13 18:36		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		05/02/13 18:36		1
1,1-Dichloroethene	0.20	J	1.0	0.19	ug/L		05/02/13 18:36		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		05/02/13 18:36		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		05/02/13 18:36		1
2-Hexanone	10	U	10	0.41	ug/L		05/02/13 18:36		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		05/02/13 18:36		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		05/02/13 18:36		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		05/02/13 18:36		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		05/02/13 18:36		1
n-Hexane	1.0	U	1.0	0.26	ug/L		05/02/13 18:36		1
Styrene	1.0	U	1.0	0.11	ug/L		05/02/13 18:36		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/02/13 18:36		1
Tetrachloroethene	1.3		1.0	0.29	ug/L		05/02/13 18:36		1
Toluene	1.0	U	1.0	0.13	ug/L		05/02/13 18:36		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/02/13 18:36		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		05/02/13 18:36		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 18:36		1
1,1,1-Trichloroethane	2.2		1.0	0.22	ug/L		05/02/13 18:36		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		05/02/13 18:36		1
Trichloroethene	25		1.0	0.17	ug/L		05/02/13 18:36		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		05/02/13 18:36		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		05/02/13 18:36		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		05/02/13 18:36		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	82		66 - 117				05/02/13 18:36		1
Dibromofluoromethane (Surr)	93		75 - 121				05/02/13 18:36		1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-34
Date Collected: 04/23/13 18:10
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-33
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		63 - 129		05/02/13 18:36	1
Toluene-d8 (Surr)	88		74 - 115		05/02/13 18:36	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-12

Date Collected: 04/23/13 16:40

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-34

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L		05/02/13 18:58		1
Benzene	1.0	U	1.0	0.13	ug/L		05/02/13 18:58		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		05/02/13 18:58		1
Bromoform	1.0	U	1.0	0.64	ug/L		05/02/13 18:58		1
Bromomethane	1.0	U	1.0	0.41	ug/L		05/02/13 18:58		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		05/02/13 18:58		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		05/02/13 18:58		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		05/02/13 18:58		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 18:58		1
Chloroethane	1.0	U	1.0	0.29	ug/L		05/02/13 18:58		1
Chloroform	1.0	U	1.0	0.16	ug/L		05/02/13 18:58		1
Chloromethane	1.0	U	1.0	0.30	ug/L		05/02/13 18:58		1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L		05/02/13 18:58		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		05/02/13 18:58		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		05/02/13 18:58		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		05/02/13 18:58		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		05/02/13 18:58		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 18:58		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		05/02/13 18:58		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 18:58		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		05/02/13 18:58		1
1,1-Dichloroethane	1.3		1.0	0.15	ug/L		05/02/13 18:58		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		05/02/13 18:58		1
1,1-Dichloroethene	0.22 J		1.0	0.19	ug/L		05/02/13 18:58		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		05/02/13 18:58		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		05/02/13 18:58		1
2-Hexanone	10	U	10	0.41	ug/L		05/02/13 18:58		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		05/02/13 18:58		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		05/02/13 18:58		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		05/02/13 18:58		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		05/02/13 18:58		1
n-Hexane	1.0	U	1.0	0.26	ug/L		05/02/13 18:58		1
Styrene	1.0	U	1.0	0.11	ug/L		05/02/13 18:58		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/02/13 18:58		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		05/02/13 18:58		1
Toluene	1.0	U	1.0	0.13	ug/L		05/02/13 18:58		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/02/13 18:58		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		05/02/13 18:58		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 18:58		1
1,1,1-Trichloroethane	3.6		1.0	0.22	ug/L		05/02/13 18:58		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		05/02/13 18:58		1
Trichloroethene	4.1		1.0	0.17	ug/L		05/02/13 18:58		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		05/02/13 18:58		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		05/02/13 18:58		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		05/02/13 18:58		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	85		66 - 117				05/02/13 18:58		1
Dibromofluoromethane (Surr)	91		75 - 121				05/02/13 18:58		1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-12

Lab Sample ID: 240-23650-34

Date Collected: 04/23/13 16:40
Date Received: 04/25/13 11:00

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		63 - 129		05/02/13 18:58	1
Toluene-d8 (Surr)	88		74 - 115		05/02/13 18:58	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-44

Date Collected: 04/24/13 10:05

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-35

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L		05/02/13 19:21		1
Benzene	1.0	U	1.0	0.13	ug/L		05/02/13 19:21		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		05/02/13 19:21		1
Bromoform	1.0	U	1.0	0.64	ug/L		05/02/13 19:21		1
Bromomethane	1.0	U	1.0	0.41	ug/L		05/02/13 19:21		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		05/02/13 19:21		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		05/02/13 19:21		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		05/02/13 19:21		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 19:21		1
Chloroethane	1.0	U	1.0	0.29	ug/L		05/02/13 19:21		1
Chloroform	1.0	U	1.0	0.16	ug/L		05/02/13 19:21		1
Chloromethane	1.0	U	1.0	0.30	ug/L		05/02/13 19:21		1
cis-1,2-Dichloroethene	10		1.0	0.17	ug/L		05/02/13 19:21		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		05/02/13 19:21		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		05/02/13 19:21		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		05/02/13 19:21		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		05/02/13 19:21		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 19:21		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		05/02/13 19:21		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 19:21		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		05/02/13 19:21		1
1,1-Dichloroethane	1.0		1.0	0.15	ug/L		05/02/13 19:21		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		05/02/13 19:21		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/02/13 19:21		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		05/02/13 19:21		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		05/02/13 19:21		1
2-Hexanone	10	U	10	0.41	ug/L		05/02/13 19:21		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		05/02/13 19:21		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		05/02/13 19:21		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		05/02/13 19:21		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		05/02/13 19:21		1
n-Hexane	1.0	U	1.0	0.26	ug/L		05/02/13 19:21		1
Styrene	1.0	U	1.0	0.11	ug/L		05/02/13 19:21		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/02/13 19:21		1
Tetrachloroethene	0.73	J	1.0	0.29	ug/L		05/02/13 19:21		1
Toluene	1.0	U	1.0	0.13	ug/L		05/02/13 19:21		1
trans-1,2-Dichloroethene	1.7		1.0	0.19	ug/L		05/02/13 19:21		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		05/02/13 19:21		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 19:21		1
1,1,1-Trichloroethane	0.76	J	1.0	0.22	ug/L		05/02/13 19:21		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		05/02/13 19:21		1
Trichloroethene	17		1.0	0.17	ug/L		05/02/13 19:21		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		05/02/13 19:21		1
Vinyl chloride	0.49	J	1.0	0.22	ug/L		05/02/13 19:21		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		05/02/13 19:21		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	85		66 - 117				05/02/13 19:21		1
Dibromofluoromethane (Surr)	89		75 - 121				05/02/13 19:21		1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-44
Date Collected: 04/24/13 10:05
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-35
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	77		63 - 129		05/02/13 19:21	1
Toluene-d8 (Surr)	87		74 - 115		05/02/13 19:21	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-5

Date Collected: 04/24/13 11:15

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-36

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.1	J	10	1.1	ug/L		05/03/13 12:24		1
Benzene	1.0	U	1.0	0.13	ug/L		05/03/13 12:24		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		05/03/13 12:24		1
Bromoform	1.0	U	1.0	0.64	ug/L		05/03/13 12:24		1
Bromomethane	1.0	U	1.0	0.41	ug/L		05/03/13 12:24		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		05/03/13 12:24		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		05/03/13 12:24		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		05/03/13 12:24		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		05/03/13 12:24		1
Chloroethane	1.0	U	1.0	0.29	ug/L		05/03/13 12:24		1
Chloroform	1.0	U	1.0	0.16	ug/L		05/03/13 12:24		1
Chloromethane	1.0	U	1.0	0.30	ug/L		05/03/13 12:24		1
cis-1,2-Dichloroethene	2.9		1.0	0.17	ug/L		05/03/13 12:24		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		05/03/13 12:24		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		05/03/13 12:24		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		05/03/13 12:24		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		05/03/13 12:24		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/03/13 12:24		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		05/03/13 12:24		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/03/13 12:24		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		05/03/13 12:24		1
1,1-Dichloroethane	4.0		1.0	0.15	ug/L		05/03/13 12:24		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		05/03/13 12:24		1
1,1-Dichloroethene	0.48	J	1.0	0.19	ug/L		05/03/13 12:24		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		05/03/13 12:24		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		05/03/13 12:24		1
2-Hexanone	10	U	10	0.41	ug/L		05/03/13 12:24		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		05/03/13 12:24		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		05/03/13 12:24		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		05/03/13 12:24		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		05/03/13 12:24		1
n-Hexane	1.0	U	1.0	0.26	ug/L		05/03/13 12:24		1
Styrene	1.0	U	1.0	0.11	ug/L		05/03/13 12:24		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/03/13 12:24		1
Tetrachloroethene	3.3		1.0	0.29	ug/L		05/03/13 12:24		1
Toluene	1.0	U	1.0	0.13	ug/L		05/03/13 12:24		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/03/13 12:24		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		05/03/13 12:24		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		05/03/13 12:24		1
1,1,1-Trichloroethane	4.9		1.0	0.22	ug/L		05/03/13 12:24		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		05/03/13 12:24		1
Trichloroethene	20		1.0	0.17	ug/L		05/03/13 12:24		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		05/03/13 12:24		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		05/03/13 12:24		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		05/03/13 12:24		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		66 - 117		05/03/13 12:24	1
Dibromofluoromethane (Surr)	93		75 - 121		05/03/13 12:24	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-5
Date Collected: 04/24/13 11:15
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-36
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		63 - 129		05/03/13 12:24	1
Toluene-d8 (Surr)	89		74 - 115		05/03/13 12:24	1

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TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-5D

Date Collected: 04/24/13 11:15

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-37

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.3	J	10	1.1	ug/L		05/03/13 12:47		1
Benzene	1.0	U	1.0	0.13	ug/L		05/03/13 12:47		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		05/03/13 12:47		1
Bromoform	1.0	U	1.0	0.64	ug/L		05/03/13 12:47		1
Bromomethane	1.0	U	1.0	0.41	ug/L		05/03/13 12:47		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		05/03/13 12:47		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		05/03/13 12:47		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		05/03/13 12:47		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		05/03/13 12:47		1
Chloroethane	1.0	U	1.0	0.29	ug/L		05/03/13 12:47		1
Chloroform	1.0	U	1.0	0.16	ug/L		05/03/13 12:47		1
Chloromethane	1.0	U	1.0	0.30	ug/L		05/03/13 12:47		1
cis-1,2-Dichloroethene	2.5		1.0	0.17	ug/L		05/03/13 12:47		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		05/03/13 12:47		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		05/03/13 12:47		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		05/03/13 12:47		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		05/03/13 12:47		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/03/13 12:47		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		05/03/13 12:47		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/03/13 12:47		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		05/03/13 12:47		1
1,1-Dichloroethane	3.6		1.0	0.15	ug/L		05/03/13 12:47		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		05/03/13 12:47		1
1,1-Dichloroethene	0.46	J	1.0	0.19	ug/L		05/03/13 12:47		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		05/03/13 12:47		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		05/03/13 12:47		1
2-Hexanone	10	U	10	0.41	ug/L		05/03/13 12:47		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		05/03/13 12:47		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		05/03/13 12:47		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		05/03/13 12:47		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		05/03/13 12:47		1
n-Hexane	1.0	U	1.0	0.26	ug/L		05/03/13 12:47		1
Styrene	1.0	U	1.0	0.11	ug/L		05/03/13 12:47		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/03/13 12:47		1
Tetrachloroethene	3.3		1.0	0.29	ug/L		05/03/13 12:47		1
Toluene	1.0	U	1.0	0.13	ug/L		05/03/13 12:47		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/03/13 12:47		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		05/03/13 12:47		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		05/03/13 12:47		1
1,1,1-Trichloroethane	4.4		1.0	0.22	ug/L		05/03/13 12:47		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		05/03/13 12:47		1
Trichloroethene	18		1.0	0.17	ug/L		05/03/13 12:47		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		05/03/13 12:47		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		05/03/13 12:47		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		05/03/13 12:47		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	86		66 - 117				05/03/13 12:47		1
Dibromofluoromethane (Surr)	94		75 - 121				05/03/13 12:47		1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-5D
Date Collected: 04/24/13 11:15
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-37
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		63 - 129	05/03/13 12:47		1
Toluene-d8 (Surr)	93		74 - 115		05/03/13 12:47	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: AMBIENT

Date Collected: 04/24/13 10:00
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-38

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.2	J	10	1.1	ug/L		05/03/13 13:10		1
Benzene	1.0	U	1.0	0.13	ug/L		05/03/13 13:10		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		05/03/13 13:10		1
Bromoform	1.0	U	1.0	0.64	ug/L		05/03/13 13:10		1
Bromomethane	1.0	U	1.0	0.41	ug/L		05/03/13 13:10		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		05/03/13 13:10		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		05/03/13 13:10		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		05/03/13 13:10		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		05/03/13 13:10		1
Chloroethane	1.0	U	1.0	0.29	ug/L		05/03/13 13:10		1
Chloroform	1.0	U	1.0	0.16	ug/L		05/03/13 13:10		1
Chloromethane	1.0	U	1.0	0.30	ug/L		05/03/13 13:10		1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L		05/03/13 13:10		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		05/03/13 13:10		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		05/03/13 13:10		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		05/03/13 13:10		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		05/03/13 13:10		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/03/13 13:10		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		05/03/13 13:10		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/03/13 13:10		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		05/03/13 13:10		1
1,1-Dichloroethane	1.0	U	1.0	0.15	ug/L		05/03/13 13:10		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		05/03/13 13:10		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/03/13 13:10		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		05/03/13 13:10		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		05/03/13 13:10		1
2-Hexanone	10	U	10	0.41	ug/L		05/03/13 13:10		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		05/03/13 13:10		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		05/03/13 13:10		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		05/03/13 13:10		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		05/03/13 13:10		1
n-Hexane	1.0	U	1.0	0.26	ug/L		05/03/13 13:10		1
Styrene	1.0	U	1.0	0.11	ug/L		05/03/13 13:10		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/03/13 13:10		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		05/03/13 13:10		1
Toluene	1.0	U	1.0	0.13	ug/L		05/03/13 13:10		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/03/13 13:10		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		05/03/13 13:10		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		05/03/13 13:10		1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L		05/03/13 13:10		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		05/03/13 13:10		1
Trichloroethene	1.0	U	1.0	0.17	ug/L		05/03/13 13:10		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		05/03/13 13:10		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		05/03/13 13:10		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		05/03/13 13:10		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		66 - 117		05/03/13 13:10	1
Dibromofluoromethane (Surr)	94		75 - 121		05/03/13 13:10	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: AMBIENT
Date Collected: 04/24/13 10:00
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-38
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		63 - 129	05/03/13 13:10		1
Toluene-d8 (Surr)	91		74 - 115		05/03/13 13:10	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: EB1-OEPA

Lab Sample ID: 240-23650-39

Matrix: Water

Date Collected: 04/24/13 09:30

Date Received: 04/25/13 11:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.2	J	10	1.1	ug/L		05/03/13 13:32		1
Benzene	1.0	U	1.0	0.13	ug/L		05/03/13 13:32		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		05/03/13 13:32		1
Bromoform	1.0	U	1.0	0.64	ug/L		05/03/13 13:32		1
Bromomethane	1.0	U	1.0	0.41	ug/L		05/03/13 13:32		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		05/03/13 13:32		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		05/03/13 13:32		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		05/03/13 13:32		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		05/03/13 13:32		1
Chloroethane	1.0	U	1.0	0.29	ug/L		05/03/13 13:32		1
Chloroform	1.0	U	1.0	0.16	ug/L		05/03/13 13:32		1
Chloromethane	1.0	U	1.0	0.30	ug/L		05/03/13 13:32		1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L		05/03/13 13:32		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		05/03/13 13:32		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		05/03/13 13:32		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		05/03/13 13:32		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		05/03/13 13:32		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/03/13 13:32		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		05/03/13 13:32		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/03/13 13:32		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		05/03/13 13:32		1
1,1-Dichloroethane	1.0	U	1.0	0.15	ug/L		05/03/13 13:32		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		05/03/13 13:32		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/03/13 13:32		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		05/03/13 13:32		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		05/03/13 13:32		1
2-Hexanone	10	U	10	0.41	ug/L		05/03/13 13:32		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		05/03/13 13:32		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		05/03/13 13:32		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		05/03/13 13:32		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		05/03/13 13:32		1
n-Hexane	1.0	U	1.0	0.26	ug/L		05/03/13 13:32		1
Styrene	1.0	U	1.0	0.11	ug/L		05/03/13 13:32		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/03/13 13:32		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		05/03/13 13:32		1
Toluene	1.0	U	1.0	0.13	ug/L		05/03/13 13:32		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/03/13 13:32		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		05/03/13 13:32		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		05/03/13 13:32		1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L		05/03/13 13:32		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		05/03/13 13:32		1
Trichloroethene	1.0	U	1.0	0.17	ug/L		05/03/13 13:32		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		05/03/13 13:32		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		05/03/13 13:32		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		05/03/13 13:32		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		66 - 117		05/03/13 13:32	1
Dibromofluoromethane (Surr)	93		75 - 121		05/03/13 13:32	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: EB1-OEPA

Date Collected: 04/24/13 09:30
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-39

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		63 - 129		05/03/13 13:32	1
Toluene-d8 (Surr)	93		74 - 115		05/03/13 13:32	1

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Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: EB2-IE

Date Collected: 04/24/13 09:50

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-40

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L		05/03/13 13:55		1
Benzene	1.0	U	1.0	0.13	ug/L		05/03/13 13:55		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		05/03/13 13:55		1
Bromoform	1.0	U	1.0	0.64	ug/L		05/03/13 13:55		1
Bromomethane	1.0	U	1.0	0.41	ug/L		05/03/13 13:55		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		05/03/13 13:55		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		05/03/13 13:55		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		05/03/13 13:55		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		05/03/13 13:55		1
Chloroethane	1.0	U	1.0	0.29	ug/L		05/03/13 13:55		1
Chloroform	0.28	J	1.0	0.16	ug/L		05/03/13 13:55		1
Chloromethane	1.0	U	1.0	0.30	ug/L		05/03/13 13:55		1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L		05/03/13 13:55		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		05/03/13 13:55		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		05/03/13 13:55		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		05/03/13 13:55		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		05/03/13 13:55		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/03/13 13:55		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		05/03/13 13:55		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/03/13 13:55		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		05/03/13 13:55		1
1,1-Dichloroethane	1.0	U	1.0	0.15	ug/L		05/03/13 13:55		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		05/03/13 13:55		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/03/13 13:55		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		05/03/13 13:55		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		05/03/13 13:55		1
2-Hexanone	10	U	10	0.41	ug/L		05/03/13 13:55		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		05/03/13 13:55		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		05/03/13 13:55		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		05/03/13 13:55		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		05/03/13 13:55		1
n-Hexane	1.0	U	1.0	0.26	ug/L		05/03/13 13:55		1
Styrene	1.0	U	1.0	0.11	ug/L		05/03/13 13:55		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/03/13 13:55		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		05/03/13 13:55		1
Toluene	1.0	U	1.0	0.13	ug/L		05/03/13 13:55		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/03/13 13:55		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		05/03/13 13:55		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		05/03/13 13:55		1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L		05/03/13 13:55		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		05/03/13 13:55		1
Trichloroethene	1.0	U	1.0	0.17	ug/L		05/03/13 13:55		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		05/03/13 13:55		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		05/03/13 13:55		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		05/03/13 13:55		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		66 - 117		05/03/13 13:55	1
Dibromofluoromethane (Surr)	93		75 - 121		05/03/13 13:55	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: EB2-IE
Date Collected: 04/24/13 09:50
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-40
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		63 - 129		05/03/13 13:55	1
Toluene-d8 (Surr)	89		74 - 115		05/03/13 13:55	1

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Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: TRIP BLANK

Date Collected: 04/22/13 00:00

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-41

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.3	J	10	1.1	ug/L			05/02/13 13:17	1
Benzene	1.0	U	1.0	0.13	ug/L			05/02/13 13:17	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			05/02/13 13:17	1
Bromoform	1.0	U	1.0	0.64	ug/L			05/02/13 13:17	1
Bromomethane	1.0	U	1.0	0.41	ug/L			05/02/13 13:17	1
2-Butanone (MEK)	10	U	10	0.57	ug/L			05/02/13 13:17	1
Carbon disulfide	1.0	U	1.0	0.13	ug/L			05/02/13 13:17	1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L			05/02/13 13:17	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			05/02/13 13:17	1
Chloroethane	1.0	U	1.0	0.29	ug/L			05/02/13 13:17	1
Chloroform	1.0	U	1.0	0.16	ug/L			05/02/13 13:17	1
Chloromethane	1.0	U	1.0	0.30	ug/L			05/02/13 13:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			05/02/13 13:17	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L			05/02/13 13:17	1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L			05/02/13 13:17	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L			05/02/13 13:17	1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L			05/02/13 13:17	1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			05/02/13 13:17	1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L			05/02/13 13:17	1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			05/02/13 13:17	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			05/02/13 13:17	1
1,1-Dichloroethane	1.0	U	1.0	0.15	ug/L			05/02/13 13:17	1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L			05/02/13 13:17	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/02/13 13:17	1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L			05/02/13 13:17	1
Ethylbenzene	1.0	U	1.0	0.17	ug/L			05/02/13 13:17	1
2-Hexanone	10	U	10	0.41	ug/L			05/02/13 13:17	1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L			05/02/13 13:17	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			05/02/13 13:17	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L			05/02/13 13:17	1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L			05/02/13 13:17	1
n-Hexane	1.0	U	1.0	0.26	ug/L			05/02/13 13:17	1
Styrene	1.0	U	1.0	0.11	ug/L			05/02/13 13:17	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/02/13 13:17	1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L			05/02/13 13:17	1
Toluene	1.0	U	1.0	0.13	ug/L			05/02/13 13:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/02/13 13:17	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			05/02/13 13:17	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L			05/02/13 13:17	1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			05/02/13 13:17	1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L			05/02/13 13:17	1
Trichloroethene	1.0	U	1.0	0.17	ug/L			05/02/13 13:17	1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L			05/02/13 13:17	1
Vinyl chloride	1.0	U	1.0	0.22	ug/L			05/02/13 13:17	1
Xylenes, Total	2.0	U	2.0	0.28	ug/L			05/02/13 13:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		66 - 117		05/02/13 13:17	1
Dibromofluoromethane (Surr)	92		75 - 121		05/02/13 13:17	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-23650-41

Date Collected: 04/22/13 00:00
Date Received: 04/25/13 11:00

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		63 - 129	05/02/13 13:17		1
Toluene-d8 (Surr)	89		74 - 115		05/02/13 13:17	1

Surrogate Summary

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (66-117)	DBFM (75-121)	12DCE (63-129)	TOL (74-115)
240-23650-1	CDFMW-1	86	98	99	89
240-23650-1 MS	CDFMW-1	103	94	100	94
240-23650-1 MSD	CDFMW-1	99	93	97	95
240-23650-2	CDFMW-2	78	100	97	88
240-23650-3	CDFMW-19	78	101	96	88
240-23650-4	CDFMW-3	87	103	100	87
240-23650-5	CDFMW-18	80	99	99	89
240-23650-6	CDFMW-4	78	97	98	88
240-23650-7	MW-36	88	109	104	84
240-23650-8	CDFMW-14	81	98	97	90
240-23650-9	MW-36D	86	102	96	84
240-23650-10	CDFMW-9	82	100	94	91
240-23650-11	MW-6	81	105	96	88
240-23650-12	MW-29	81	98	96	88
240-23650-13	MW-33	81	100	95	87
240-23650-14	CDFMW-22	86	101	98	87
240-23650-15	CDFMW-10	81	97	92	91
240-23650-16	CDFMW-16	86	98	96	90
240-23650-17	CDFMW-11	86	87	76	87
240-23650-18	CDFMW-23	89	90	75	89
240-23650-19	CDFMW-21	83	93	79	90
240-23650-20	CDFMW-7	88	90	80	90
240-23650-21	CDFMW-21D	88	92	79	89
240-23650-22	FW-9	85	94	82	91
240-23650-23	MW-19	84	90	81	93
240-23650-24	MW-45	87	91	80	90
240-23650-25	MW-43	89	94	81	90
240-23650-26	MW-35	85	95	80	88
240-23650-27	CDFMW-20	84	94	80	88
240-23650-28	MW-14	87	92	82	89
240-23650-29	MW-23	86	90	81	87
240-23650-30	MW-22	85	94	79	88
240-23650-31	MW-38	83	90	80	89
240-23650-32	MW-13	87	91	81	88
240-23650-33	MW-34	82	93	81	88
240-23650-34	CDFMW-12	85	91	81	88
240-23650-35	MW-44	85	89	77	87
240-23650-35 MS	MW-44	94	94	82	91
240-23650-35 MSD	MW-44	96	92	78	94
240-23650-36	MW-5	86	93	80	89
240-23650-36 MS	MW-5	96	92	76	92
240-23650-36 MSD	MW-5	89	91	84	92
240-23650-37	MW-5D	86	94	80	93
240-23650-38	AMBIENT	87	94	83	91
240-23650-39	EB1-OEPA	91	93	80	93
240-23650-40	EB2-IE	86	93	80	89
240-23650-41	TRIP BLANK	85	92	83	89
LCS 240-84108/3	Lab Control Sample	96	96	98	94
LCS 240-84430/4	Lab Control Sample	93	95	82	94

TestAmerica Canton

Surrogate Summary

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (66-117)	DBFM (75-121)	12DCE (63-129)	TOL (74-115)
LCS 240-84603/4	Lab Control Sample	94	96	81	94
MB 240-84108/5	Method Blank	81	99	94	89
MB 240-84430/5	Method Blank	88	92	78	90
MB 240-84603/5	Method Blank	85	93	81	91

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (20-110)	2FP (10-110)	NBZ (21-110)	PHL (21-110)	TPH (24-110)	TBP (21-110)
240-23650-14	CDFMW-22	51	54	54	56	41	65
240-23650-15	CDFMW-10	46	49	50	51	37	61
240-23650-17	CDFMW-11	56	0 X	50	55	46	0 X
240-23650-20	CDFMW-7	49	54	51	57	41	66
LCS 240-83983/13-A	Lab Control Sample	76	75	76	75	54	81
MB 240-83983/12-A	Method Blank	53	53	55	54	43	54

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

TestAmerica Canton

QC Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-84108/5

Matrix: Water

Analysis Batch: 84108

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	10	U	10	1.1	ug/L			04/30/13 11:31	1
Benzene	1.0	U	1.0	0.13	ug/L			04/30/13 11:31	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			04/30/13 11:31	1
Bromoform	1.0	U	1.0	0.64	ug/L			04/30/13 11:31	1
Bromomethane	1.0	U	1.0	0.41	ug/L			04/30/13 11:31	1
2-Butanone (MEK)	10	U	10	0.57	ug/L			04/30/13 11:31	1
Carbon disulfide	0.266	J	1.0	0.13	ug/L			04/30/13 11:31	1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L			04/30/13 11:31	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			04/30/13 11:31	1
Chloroethane	1.0	U	1.0	0.29	ug/L			04/30/13 11:31	1
Chloroform	1.0	U	1.0	0.16	ug/L			04/30/13 11:31	1
Chloromethane	1.0	U	1.0	0.30	ug/L			04/30/13 11:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			04/30/13 11:31	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L			04/30/13 11:31	1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L			04/30/13 11:31	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L			04/30/13 11:31	1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L			04/30/13 11:31	1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			04/30/13 11:31	1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L			04/30/13 11:31	1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			04/30/13 11:31	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			04/30/13 11:31	1
1,1-Dichloroethane	1.0	U	1.0	0.15	ug/L			04/30/13 11:31	1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L			04/30/13 11:31	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			04/30/13 11:31	1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L			04/30/13 11:31	1
Ethylbenzene	1.0	U	1.0	0.17	ug/L			04/30/13 11:31	1
2-Hexanone	10	U	10	0.41	ug/L			04/30/13 11:31	1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L			04/30/13 11:31	1
Methylene Chloride	1.29		1.0	0.33	ug/L			04/30/13 11:31	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L			04/30/13 11:31	1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L			04/30/13 11:31	1
n-Hexane	1.0	U	1.0	0.26	ug/L			04/30/13 11:31	1
Styrene	1.0	U	1.0	0.11	ug/L			04/30/13 11:31	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			04/30/13 11:31	1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L			04/30/13 11:31	1
Toluene	1.0	U	1.0	0.13	ug/L			04/30/13 11:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			04/30/13 11:31	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			04/30/13 11:31	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L			04/30/13 11:31	1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			04/30/13 11:31	1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L			04/30/13 11:31	1
Trichloroethene	1.0	U	1.0	0.17	ug/L			04/30/13 11:31	1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L			04/30/13 11:31	1
Vinyl chloride	1.0	U	1.0	0.22	ug/L			04/30/13 11:31	1
Xylenes, Total	2.0	U	2.0	0.28	ug/L			04/30/13 11:31	1

TestAmerica Canton

QC Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-84108/5

Matrix: Water

Analysis Batch: 84108

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
4-Bromofluorobenzene (Surr)	81		66 - 117				04/30/13 11:31	1
Dibromofluoromethane (Surr)	99		75 - 121				04/30/13 11:31	1
1,2-Dichloroethane-d4 (Surr)	94		63 - 129				04/30/13 11:31	1
Toluene-d8 (Surr)	89		74 - 115				04/30/13 11:31	1

Lab Sample ID: LCS 240-84108/3

Matrix: Water

Analysis Batch: 84108

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LC S	LCS	Unit	D	%Rec	Limits	%Rec.
		Result	Qualifier					
Acetone	20.0	19.4		ug/L		97	43 - 136	
Benzene	10.0	9.52		ug/L		95	83 - 112	
Bromodichloromethane	10.0	10.6		ug/L		106	72 - 121	
Bromoform	10.0	11.4		ug/L		114	40 - 131	
Bromomethane	10.0	4.69		ug/L		47	11 - 185	
2-Butanone (MEK)	20.0	21.0		ug/L		105	60 - 126	
Carbon disulfide	10.0	9.35		ug/L		94	62 - 142	
Carbon tetrachloride	10.0	8.82		ug/L		88	66 - 128	
Chlorobenzene	10.0	9.73		ug/L		97	85 - 110	
Chloroethane	10.0	5.85		ug/L		59	25 - 153	
Chloroform	10.0	9.48		ug/L		95	79 - 117	
Chloromethane	10.0	5.90		ug/L		59	44 - 126	
cis-1,2-Dichloroethene	10.0	9.36		ug/L		94	80 - 113	
cis-1,3-Dichloropropene	10.0	8.92		ug/L		89	61 - 115	
Dibromochloromethane	10.0	10.9		ug/L		109	64 - 119	
1,2-Dibromo-3-Chloropropane	10.0	11.6		ug/L		116	42 - 136	
1,2-Dibromoethane	10.0	10.5		ug/L		105	79 - 113	
1,2-Dichlorobenzene	10.0	9.57		ug/L		96	81 - 110	
1,3-Dichlorobenzene	10.0	9.50		ug/L		95	80 - 110	
1,4-Dichlorobenzene	10.0	9.27		ug/L		93	82 - 110	
Dichlorodifluoromethane	10.0	7.40		ug/L		74	19 - 129	
1,1-Dichloroethane	10.0	9.56		ug/L		96	82 - 115	
1,2-Dichloroethane	10.0	10.2		ug/L		102	71 - 127	
1,1-Dichloroethene	10.0	8.62		ug/L		86	78 - 131	
1,2-Dichloropropene	10.0	9.80		ug/L		98	81 - 115	
Ethylbenzene	10.0	9.66		ug/L		97	83 - 112	
2-Hexanone	20.0	22.3		ug/L		112	55 - 133	
Isopropylbenzene	10.0	9.92		ug/L		99	75 - 114	
Methylene Chloride	10.0	10.2		ug/L		102	66 - 131	
4-Methyl-2-pentanone (MIBK)	20.0	24.0		ug/L		120	63 - 128	
Methyl tert-butyl ether	10.0	10.2		ug/L		102	52 - 144	
m-Xylene & p-Xylene	20.0	19.8		ug/L		99	83 - 113	
n-Hexane	10.0	10.5		ug/L		105	66 - 137	
o-Xylene	10.0	9.97		ug/L		100	83 - 113	
Styrene	10.0	10.3		ug/L		103	79 - 114	
1,1,2,2-Tetrachloroethane	10.0	9.58		ug/L		96	68 - 118	
Tetrachloroethene	10.0	10.0		ug/L		100	79 - 114	
Toluene	10.0	9.36		ug/L		94	84 - 111	

TestAmerica Canton

QC Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-84108/3

Matrix: Water

Analysis Batch: 84108

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike	LCS		Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
trans-1,2-Dichloroethene	10.0	9.44		ug/L		94	83 - 117
trans-1,3-Dichloropropene	10.0	9.02		ug/L		90	58 - 117
1,2,4-Trichlorobenzene	10.0	8.03		ug/L		80	48 - 135
1,1,1-Trichloroethane	10.0	9.36		ug/L		94	74 - 118
1,1,2-Trichloroethane	10.0	10.2		ug/L		102	80 - 112
Trichloroethene	10.0	10.3		ug/L		103	76 - 117
Trichlorofluoromethane	10.0	7.12		ug/L		71	49 - 157
Vinyl chloride	10.0	7.97		ug/L		80	53 - 127
Xylenes, Total	30.0	29.8		ug/L		99	83 - 112

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		66 - 117
Dibromofluoromethane (Surr)	96		75 - 121
1,2-Dichloroethane-d4 (Surr)	98		63 - 129
Toluene-d8 (Surr)	94		74 - 115

Lab Sample ID: 240-23650-1 MS

Matrix: Water

Analysis Batch: 84108

Client Sample ID: CDFMW-1
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Acetone	2.1	J	20.0	17.9		ug/L		79	33 - 145
Benzene	1.0	U	10.0	9.28		ug/L		93	72 - 121
Bromodichloromethane	1.0	U	10.0	10.1		ug/L		101	67 - 120
Bromoform	1.0	U	10.0	11.0		ug/L		110	32 - 128
Bromomethane	1.0	U	10.0	3.56		ug/L		36	10 - 186
2-Butanone (MEK)	10	U	20.0	20.3		ug/L		102	54 - 129
Carbon disulfide	1.0	U	10.0	8.56		ug/L		86	57 - 147
Carbon tetrachloride	1.0	U	10.0	8.39		ug/L		84	59 - 129
Chlorobenzene	1.0	U	10.0	9.32		ug/L		93	80 - 110
Chloroethane	1.0	U	10.0	5.54		ug/L		55	21 - 165
Chloroform	1.0	U	10.0	9.30		ug/L		93	76 - 118
Chloromethane	1.0	U	10.0	5.83		ug/L		58	33 - 132
cis-1,2-Dichloroethene	1.1		10.0	10.5		ug/L		93	70 - 120
cis-1,3-Dichloropropene	1.0	U	10.0	7.75		ug/L		77	51 - 110
Dibromochloromethane	1.0	U	10.0	10.5		ug/L		105	56 - 118
1,2-Dibromo-3-Chloropropane	2.0	U	10.0	11.2		ug/L		112	32 - 139
1,2-Dibromoethane	1.0	U	10.0	10.1		ug/L		101	74 - 113
1,2-Dichlorobenzene	1.0	U	10.0	8.94		ug/L		89	75 - 111
1,3-Dichlorobenzene	1.0	U	10.0	8.68		ug/L		87	73 - 110
1,4-Dichlorobenzene	1.0	U	10.0	8.45		ug/L		84	75 - 110
Dichlorodifluoromethane	1.0	U	10.0	7.06		ug/L		71	17 - 128
1,1-Dichloroethane	2.3		10.0	11.3		ug/L		90	79 - 116
1,2-Dichloroethane	1.0	U	10.0	9.73		ug/L		97	68 - 129
1,1-Dichloroethene	1.0	U	10.0	8.37		ug/L		84	74 - 135
1,2-Dichloropropane	1.0	U	10.0	9.56		ug/L		96	78 - 115
Ethylbenzene	1.0	U	10.0	9.39		ug/L		94	75 - 116
2-Hexanone	10	U	20.0	24.7		ug/L		123	47 - 139

TestAmerica Canton

QC Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-23650-1 MS

Matrix: Water

Analysis Batch: 84108

Client Sample ID: CDFMW-1
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits		
	Result	Qualifier	Added	Result	Qualifier						
Isopropylbenzene	1.0	U	10.0	9.60		ug/L		96	68 - 116		
Methylene Chloride	1.0	U	10.0	8.70		ug/L		87	63 - 128		
4-Methyl-2-pentanone (MIBK)	10	U	20.0	24.4		ug/L		122	56 - 131		
Methyl tert-butyl ether	1.0	U	10.0	9.87		ug/L		99	46 - 144		
m-Xylene & p-Xylene	2.0		20.0	19.0		ug/L		95	75 - 117		
n-Hexane	1.0	U	10.0	9.66		ug/L		97	54 - 138		
o-Xylene	1.0		10.0	9.74		ug/L		97	76 - 116		
Styrene	1.0	U	10.0	9.86		ug/L		99	71 - 117		
1,1,2,2-Tetrachloroethane	1.0	U	10.0	9.55		ug/L		96	63 - 122		
Tetrachloroethene	1.0	U	10.0	9.91		ug/L		99	70 - 117		
Toluene	1.0	U	10.0	9.06		ug/L		91	78 - 114		
trans-1,2-Dichloroethene	1.3		10.0	10.3		ug/L		90	80 - 119		
trans-1,3-Dichloropropene	1.0	U	10.0	8.41		ug/L		84	46 - 116		
1,2,4-Trichlorobenzene	1.0	U	10.0	7.76		ug/L		78	38 - 138		
1,1,1-Trichloroethane	1.0	U	10.0	8.95		ug/L		90	68 - 121		
1,1,2-Trichloroethane	1.0	U	10.0	9.98		ug/L		100	75 - 115		
Trichloroethene	1.0	U	10.0	9.79		ug/L		98	66 - 120		
Trichlorofluoromethane	1.0	U	10.0	6.88		ug/L		69	46 - 157		
Vinyl chloride	0.71	J	10.0	8.66		ug/L		80	49 - 130		
Xylenes, Total	2.0	U	30.0	28.7		ug/L		96	76 - 116		

MS MS

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	103		66 - 117
Dibromofluoromethane (Surr)	94		75 - 121
1,2-Dichloroethane-d4 (Surr)	100		63 - 129
Toluene-d8 (Surr)	94		74 - 115

Lab Sample ID: 240-23650-1 MSD

Matrix: Water

Analysis Batch: 84108

Client Sample ID: CDFMW-1
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Acetone	2.1	J	20.0	20.2		ug/L		90	33 - 145	12	30
Benzene	1.0	U	10.0	9.31		ug/L		93	72 - 121	0	30
Bromodichloromethane	1.0	U	10.0	10.2		ug/L		102	67 - 120	1	30
Bromoform	1.0	U	10.0	10.7		ug/L		107	32 - 128	3	30
Bromomethane	1.0	U	10.0	3.47		ug/L		35	10 - 186	3	30
2-Butanone (MEK)	10	U	20.0	20.9		ug/L		104	54 - 129	3	30
Carbon disulfide	1.0	U	10.0	8.27		ug/L		83	57 - 147	3	30
Carbon tetrachloride	1.0	U	10.0	8.32		ug/L		83	59 - 129	1	30
Chlorobenzene	1.0	U	10.0	9.29		ug/L		93	80 - 110	0	30
Chloroethane	1.0	U	10.0	5.48		ug/L		55	21 - 165	1	30
Chloroform	1.0	U	10.0	9.30		ug/L		93	76 - 118	0	30
Chloromethane	1.0	U	10.0	5.24		ug/L		52	33 - 132	11	30
cis-1,2-Dichloroethene	1.1		10.0	10.4		ug/L		93	70 - 120	1	30
cis-1,3-Dichloropropene	1.0	U	10.0	7.93		ug/L		79	51 - 110	2	30
Dibromochloromethane	1.0	U	10.0	10.3		ug/L		103	56 - 118	3	30
1,2-Dibromo-3-Chloropropane	2.0	U	10.0	13.0		ug/L		130	32 - 139	15	30

TestAmerica Canton

QC Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-23650-1 MSD

Matrix: Water

Analysis Batch: 84108

Client Sample ID: CDFMW-1

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
1,2-Dibromoethane	1.0	U	10.0	10.4		ug/L		104	74 - 113	3	30	
1,2-Dichlorobenzene	1.0	U	10.0	9.13		ug/L		91	75 - 111	2	30	
1,3-Dichlorobenzene	1.0	U	10.0	9.06		ug/L		91	73 - 110	4	30	
1,4-Dichlorobenzene	1.0	U	10.0	8.86		ug/L		89	75 - 110	5	30	
Dichlorodifluoromethane	1.0	U	10.0	6.84		ug/L		68	17 - 128	3	30	
1,1-Dichloroethane	2.3		10.0	11.5		ug/L		92	79 - 116	1	30	
1,2-Dichloroethane	1.0	U	10.0	9.86		ug/L		99	68 - 129	1	30	
1,1-Dichloroethene	1.0	U	10.0	9.42		ug/L		94	74 - 135	12	30	
1,2-Dichloropropane	1.0	U	10.0	9.52		ug/L		95	78 - 115	0	30	
Ethylbenzene	1.0	U	10.0	9.18		ug/L		92	75 - 116	2	30	
2-Hexanone	10	U	20.0	25.3		ug/L		126	47 - 139	2	30	
Isopropylbenzene	1.0	U	10.0	9.25		ug/L		92	68 - 116	4	30	
Methylene Chloride	1.0	U	10.0	8.18		ug/L		82	63 - 128	6	30	
4-Methyl-2-pentanone (MIBK)	10	U	20.0	25.7		ug/L		128	56 - 131	5	30	
Methyl tert-butyl ether	1.0	U	10.0	9.75		ug/L		98	46 - 144	1	30	
m-Xylene & p-Xylene	2.0		20.0	18.7		ug/L		94	75 - 117	2	30	
n-Hexane	1.0	U	10.0	9.90		ug/L		99	54 - 138	2	30	
o-Xylene	1.0		10.0	9.42		ug/L		94	76 - 116	3	30	
Styrene	1.0	U	10.0	9.49		ug/L		95	71 - 117	4	30	
1,1,2,2-Tetrachloroethane	1.0	U	10.0	10.5		ug/L		105	63 - 122	10	30	
Tetrachloroethylene	1.0	U	10.0	9.96		ug/L		100	70 - 117	0	30	
Toluene	1.0	U	10.0	9.16		ug/L		92	78 - 114	1	30	
trans-1,2-Dichloroethene	1.3		10.0	10.2		ug/L		90	80 - 119	0	30	
trans-1,3-Dichloropropene	1.0	U	10.0	8.60		ug/L		86	46 - 116	2	30	
1,2,4-Trichlorobenzene	1.0	U	10.0	8.64		ug/L		86	38 - 138	11	30	
1,1,1-Trichloroethane	1.0	U	10.0	8.87		ug/L		89	68 - 121	1	30	
1,1,2-Trichloroethane	1.0	U	10.0	10.1		ug/L		101	75 - 115	1	30	
Trichloroethene	1.0	U	10.0	10.1		ug/L		101	66 - 120	3	30	
Trichlorofluoromethane	1.0	U	10.0	6.43		ug/L		64	46 - 157	7	30	
Vinyl chloride	0.71	J	10.0	8.51		ug/L		78	49 - 130	2	30	
Xylenes, Total	2.0	U	30.0	28.1		ug/L		94	76 - 116	2	30	

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		66 - 117
Dibromofluoromethane (Surr)	93		75 - 121
1,2-Dichloroethane-d4 (Surr)	97		63 - 129
Toluene-d8 (Surr)	95		74 - 115

Lab Sample ID: MB 240-84430/5

Matrix: Water

Analysis Batch: 84430

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	10	U	10	1.1	ug/L			05/02/13 11:48	1
Benzene	1.0	U	1.0	0.13	ug/L			05/02/13 11:48	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			05/02/13 11:48	1
Bromoform	1.0	U	1.0	0.64	ug/L			05/02/13 11:48	1
Bromomethane	1.0	U	1.0	0.41	ug/L			05/02/13 11:48	1

TestAmerica Canton

QC Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-84430/5

Matrix: Water

Analysis Batch: 84430

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
2-Butanone (MEK)	10	U			10	0.57	ug/L			05/02/13 11:48	1
Carbon disulfide	1.0	U			1.0	0.13	ug/L			05/02/13 11:48	1
Carbon tetrachloride	1.0	U			1.0	0.13	ug/L			05/02/13 11:48	1
Chlorobenzene	1.0	U			1.0	0.15	ug/L			05/02/13 11:48	1
Chloroethane	1.0	U			1.0	0.29	ug/L			05/02/13 11:48	1
Chloroform	1.0	U			1.0	0.16	ug/L			05/02/13 11:48	1
Chloromethane	1.0	U			1.0	0.30	ug/L			05/02/13 11:48	1
cis-1,2-Dichloroethene	1.0	U			1.0	0.17	ug/L			05/02/13 11:48	1
cis-1,3-Dichloropropene	1.0	U			1.0	0.14	ug/L			05/02/13 11:48	1
Dibromochloromethane	1.0	U			1.0	0.18	ug/L			05/02/13 11:48	1
1,2-Dibromo-3-Chloropropane	2.0	U			2.0	0.67	ug/L			05/02/13 11:48	1
1,2-Dibromoethane	1.0	U			1.0	0.24	ug/L			05/02/13 11:48	1
1,2-Dichlorobenzene	1.0	U			1.0	0.13	ug/L			05/02/13 11:48	1
1,3-Dichlorobenzene	1.0	U			1.0	0.14	ug/L			05/02/13 11:48	1
1,4-Dichlorobenzene	1.0	U			1.0	0.13	ug/L			05/02/13 11:48	1
Dichlorodifluoromethane	1.0	U			1.0	0.31	ug/L			05/02/13 11:48	1
1,1-Dichloroethane	1.0	U			1.0	0.15	ug/L			05/02/13 11:48	1
1,2-Dichloroethane	1.0	U			1.0	0.22	ug/L			05/02/13 11:48	1
1,1-Dichloroethene	1.0	U			1.0	0.19	ug/L			05/02/13 11:48	1
1,2-Dichloropropane	1.0	U			1.0	0.18	ug/L			05/02/13 11:48	1
Ethylbenzene	1.0	U			1.0	0.17	ug/L			05/02/13 11:48	1
2-Hexanone	10	U			10	0.41	ug/L			05/02/13 11:48	1
Isopropylbenzene	1.0	U			1.0	0.13	ug/L			05/02/13 11:48	1
Methylene Chloride	1.0	U			1.0	0.33	ug/L			05/02/13 11:48	1
4-Methyl-2-pentanone (MIBK)	10	U			10	0.32	ug/L			05/02/13 11:48	1
Methyl tert-butyl ether	1.0	U			1.0	0.17	ug/L			05/02/13 11:48	1
n-Hexane	1.0	U			1.0	0.26	ug/L			05/02/13 11:48	1
Styrene	1.0	U			1.0	0.11	ug/L			05/02/13 11:48	1
1,1,2,2-Tetrachloroethane	1.0	U			1.0	0.18	ug/L			05/02/13 11:48	1
Tetrachloroethene	1.0	U			1.0	0.29	ug/L			05/02/13 11:48	1
Toluene	1.0	U			1.0	0.13	ug/L			05/02/13 11:48	1
trans-1,2-Dichloroethene	1.0	U			1.0	0.19	ug/L			05/02/13 11:48	1
trans-1,3-Dichloropropene	1.0	U			1.0	0.19	ug/L			05/02/13 11:48	1
1,2,4-Trichlorobenzene	1.0	U			1.0	0.15	ug/L			05/02/13 11:48	1
1,1,1-Trichloroethane	1.0	U			1.0	0.22	ug/L			05/02/13 11:48	1
1,1,2-Trichloroethane	1.0	U			1.0	0.27	ug/L			05/02/13 11:48	1
Trichloroethene	1.0	U			1.0	0.17	ug/L			05/02/13 11:48	1
Trichlorofluoromethane	1.0	U			1.0	0.21	ug/L			05/02/13 11:48	1
Vinyl chloride	1.0	U			1.0	0.22	ug/L			05/02/13 11:48	1
Xylenes, Total	2.0	U			2.0	0.28	ug/L			05/02/13 11:48	1

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
4-Bromofluorobenzene (Surr)	88		66 - 117				05/02/13 11:48	1
Dibromofluoromethane (Surr)	92		75 - 121				05/02/13 11:48	1
1,2-Dichloroethane-d4 (Surr)	78		63 - 129				05/02/13 11:48	1
Toluene-d8 (Surr)	90		74 - 115				05/02/13 11:48	1

QC Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-84430/4

Matrix: Water

Analysis Batch: 84430

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
Acetone	20.0	16.3		ug/L	82	43 - 136		
Benzene	10.0	9.13		ug/L	91	83 - 112		
Bromodichloromethane	10.0	9.19		ug/L	92	72 - 121		
Bromoform	10.0	9.96		ug/L	100	40 - 131		
Bromomethane	10.0	5.38		ug/L	54	11 - 185		
2-Butanone (MEK)	20.0	16.6		ug/L	83	60 - 126		
Carbon disulfide	10.0	7.27		ug/L	73	62 - 142		
Carbon tetrachloride	10.0	9.97		ug/L	100	66 - 128		
Chlorobenzene	10.0	9.05		ug/L	91	85 - 110		
Chloroethane	10.0	6.57		ug/L	66	25 - 153		
Chloroform	10.0	9.08		ug/L	91	79 - 117		
Chloromethane	10.0	6.45		ug/L	64	44 - 126		
cis-1,2-Dichloroethene	10.0	9.29		ug/L	93	80 - 113		
cis-1,3-Dichloropropene	10.0	8.51		ug/L	85	61 - 115		
Dibromochloromethane	10.0	9.69		ug/L	97	64 - 119		
1,2-Dibromo-3-Chloropropane	10.0	9.06		ug/L	91	42 - 136		
1,2-Dibromoethane	10.0	9.32		ug/L	93	79 - 113		
1,2-Dichlorobenzene	10.0	9.47		ug/L	95	81 - 110		
1,3-Dichlorobenzene	10.0	9.11		ug/L	91	80 - 110		
1,4-Dichlorobenzene	10.0	8.85		ug/L	89	82 - 110		
Dichlorodifluoromethane	10.0	4.73		ug/L	47	19 - 129		
1,1-Dichloroethane	10.0	8.90		ug/L	89	82 - 115		
1,2-Dichloroethane	10.0	8.53		ug/L	85	71 - 127		
1,1-Dichloroethene	10.0	8.27		ug/L	83	78 - 131		
1,2-Dichloropropene	10.0	8.87		ug/L	89	81 - 115		
Ethylbenzene	10.0	9.13		ug/L	91	83 - 112		
2-Hexanone	20.0	16.4		ug/L	82	55 - 133		
Isopropylbenzene	10.0	8.61		ug/L	86	75 - 114		
Methylene Chloride	10.0	8.37		ug/L	84	66 - 131		
4-Methyl-2-pentanone (MIBK)	20.0	15.5		ug/L	78	63 - 128		
Methyl tert-butyl ether	10.0	8.39		ug/L	84	52 - 144		
m-Xylene & p-Xylene	20.0	18.0		ug/L	90	83 - 113		
n-Hexane	10.0	9.83		ug/L	98	66 - 137		
o-Xylene	10.0	8.77		ug/L	88	83 - 113		
Styrene	10.0	8.92		ug/L	89	79 - 114		
1,1,2,2-Tetrachloroethane	10.0	7.68		ug/L	77	68 - 118		
Tetrachloroethene	10.0	10.6		ug/L	106	79 - 114		
Toluene	10.0	9.23		ug/L	92	84 - 111		
trans-1,2-Dichloroethene	10.0	9.25		ug/L	92	83 - 117		
trans-1,3-Dichloropropene	10.0	8.88		ug/L	89	58 - 117		
1,2,4-Trichlorobenzene	10.0	8.44		ug/L	84	48 - 135		
1,1,1-Trichloroethane	10.0	9.71		ug/L	97	74 - 118		
1,1,2-Trichloroethane	10.0	9.66		ug/L	97	80 - 112		
Trichloroethene	10.0	10.1		ug/L	101	76 - 117		
Trichlorofluoromethane	10.0	7.16		ug/L	72	49 - 157		
Vinyl chloride	10.0	6.70		ug/L	67	53 - 127		
Xylenes, Total	30.0	26.8		ug/L	89	83 - 112		

TestAmerica Canton

QC Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-84430/4

Matrix: Water

Analysis Batch: 84430

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		66 - 117
Dibromofluoromethane (Surr)	95		75 - 121
1,2-Dichloroethane-d4 (Surr)	82		63 - 129
Toluene-d8 (Surr)	94		74 - 115

Lab Sample ID: 240-23650-35 MS

Matrix: Water

Analysis Batch: 84430

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Acetone	10	U	20.0	14.2		ug/L		71	33 - 145
Benzene	1.0	U	10.0	9.64		ug/L		96	72 - 121
Bromodichloromethane	1.0	U	10.0	9.94		ug/L		99	67 - 120
Bromoform	1.0	U	10.0	9.98		ug/L		100	32 - 128
Bromomethane	1.0	U	10.0	5.08		ug/L		51	10 - 186
2-Butanone (MEK)	10	U	20.0	16.3		ug/L		82	54 - 129
Carbon disulfide	1.0	U	10.0	7.38		ug/L		74	57 - 147
Carbon tetrachloride	1.0	U	10.0	9.88		ug/L		99	59 - 129
Chlorobenzene	1.0	U	10.0	9.51		ug/L		95	80 - 110
Chloroethane	1.0	U	10.0	6.46		ug/L		65	21 - 165
Chloroform	1.0	U	10.0	9.66		ug/L		97	76 - 118
Chloromethane	1.0	U	10.0	6.64		ug/L		66	33 - 132
cis-1,2-Dichloroethene	10		10.0	20.5		ug/L		102	70 - 120
cis-1,3-Dichloropropene	1.0	U	10.0	8.58		ug/L		86	51 - 110
Dibromochloromethane	1.0	U	10.0	9.67		ug/L		97	56 - 118
1,2-Dibromo-3-Chloropropane	2.0	U	10.0	8.58		ug/L		86	32 - 139
1,2-Dibromoethane	1.0	U	10.0	9.52		ug/L		95	74 - 113
1,2-Dichlorobenzene	1.0	U	10.0	9.05		ug/L		90	75 - 111
1,3-Dichlorobenzene	1.0	U	10.0	9.02		ug/L		90	73 - 110
1,4-Dichlorobenzene	1.0	U	10.0	9.08		ug/L		91	75 - 110
Dichlorodifluoromethane	1.0	U	10.0	4.04		ug/L		40	17 - 128
1,1-Dichloroethane	1.0		10.0	10.4		ug/L		93	79 - 116
1,2-Dichloroethane	1.0	U	10.0	9.19		ug/L		92	68 - 129
1,1-Dichloroethene	1.0	U	10.0	8.15		ug/L		82	74 - 135
1,2-Dichloropropane	1.0	U	10.0	9.11		ug/L		91	78 - 115
Ethylbenzene	1.0	U	10.0	9.22		ug/L		92	75 - 116
2-Hexanone	10	U	20.0	15.8		ug/L		79	47 - 139
Isopropylbenzene	1.0	U	10.0	8.82		ug/L		88	68 - 116
Methylene Chloride	1.0	U	10.0	8.31		ug/L		83	63 - 128
4-Methyl-2-pentanone (MIBK)	10	U	20.0	16.0		ug/L		80	56 - 131
Methyl tert-butyl ether	1.0	U	10.0	8.66		ug/L		87	46 - 144
m-Xylene & p-Xylene	2.0		20.0	18.7		ug/L		94	75 - 117
n-Hexane	1.0	U	10.0	7.84		ug/L		78	54 - 138
o-Xylene	1.0		10.0	9.27		ug/L		93	76 - 116
Styrene	1.0	U	10.0	9.48		ug/L		95	71 - 117
1,1,2,2-Tetrachloroethane	1.0	U	10.0	7.80		ug/L		78	63 - 122
Tetrachloroethene	0.73	J	10.0	11.0		ug/L		102	70 - 117
Toluene	1.0	U	10.0	9.21		ug/L		92	78 - 114

TestAmerica Canton

QC Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-23650-35 MS

Matrix: Water

Analysis Batch: 84430

Client Sample ID: MW-44
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
trans-1,2-Dichloroethene	1.7		10.0	11.5		ug/L		98	80 - 119
trans-1,3-Dichloropropene	1.0	U	10.0	8.61		ug/L		86	46 - 116
1,2,4-Trichlorobenzene	1.0	U	10.0	8.35		ug/L		84	38 - 138
1,1,1-Trichloroethane	0.76	J	10.0	10.8		ug/L		101	68 - 121
1,1,2-Trichloroethane	1.0	U	10.0	9.76		ug/L		98	75 - 115
Trichloroethene	17		10.0	26.6		ug/L		101	66 - 120
Trichlorofluoromethane	1.0	U	10.0	6.01		ug/L		60	46 - 157
Vinyl chloride	0.49	J	10.0	6.20		ug/L		57	49 - 130
Xylenes, Total	2.0	U	30.0	28.0		ug/L		93	76 - 116
MS MS									
Surrogate	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
4-Bromofluorobenzene (Surr)				94		ug/L			66 - 117
Dibromofluoromethane (Surr)				94		ug/L			75 - 121
1,2-Dichloroethane-d4 (Surr)				82		ug/L			63 - 129
Toluene-d8 (Surr)				91		ug/L			74 - 115

Lab Sample ID: 240-23650-35 MSD

Matrix: Water

Analysis Batch: 84430

Client Sample ID: MW-44
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier						
Acetone	10	U	20.0	13.2		ug/L		66	33 - 145	7	30
Benzene	1.0	U	10.0	9.68		ug/L		97	72 - 121	0	30
Bromodichloromethane	1.0	U	10.0	9.50		ug/L		95	67 - 120	4	30
Bromoform	1.0	U	10.0	10.1		ug/L		101	32 - 128	1	30
Bromomethane	1.0	U	10.0	4.87		ug/L		49	10 - 186	4	30
2-Butanone (MEK)	10	U	20.0	15.2		ug/L		76	54 - 129	7	30
Carbon disulfide	1.0	U	10.0	7.39		ug/L		74	57 - 147	0	30
Carbon tetrachloride	1.0	U	10.0	9.92		ug/L		99	59 - 129	0	30
Chlorobenzene	1.0	U	10.0	9.62		ug/L		96	80 - 110	1	30
Chloroethane	1.0	U	10.0	6.66		ug/L		67	21 - 165	3	30
Chloroform	1.0	U	10.0	9.50		ug/L		95	76 - 118	2	30
Chloromethane	1.0	U	10.0	6.84		ug/L		68	33 - 132	3	30
cis-1,2-Dichloroethene	10		10.0	20.0		ug/L		97	70 - 120	2	30
cis-1,3-Dichloropropene	1.0	U	10.0	8.66		ug/L		87	51 - 110	1	30
Dibromochloromethane	1.0	U	10.0	9.82		ug/L		98	56 - 118	2	30
1,2-Dibromo-3-Chloropropane	2.0	U	10.0	8.84		ug/L		88	32 - 139	3	30
1,2-Dibromoethane	1.0	U	10.0	9.63		ug/L		96	74 - 113	1	30
1,2-Dichlorobenzene	1.0	U	10.0	9.38		ug/L		94	75 - 111	4	30
1,3-Dichlorobenzene	1.0	U	10.0	9.26		ug/L		93	73 - 110	3	30
1,4-Dichlorobenzene	1.0	U	10.0	9.27		ug/L		93	75 - 110	2	30
Dichlorodifluoromethane	1.0	U	10.0	4.17		ug/L		42	17 - 128	3	30
1,1-Dichloroethane	1.0		10.0	10.1		ug/L		91	79 - 116	2	30
1,2-Dichloroethane	1.0	U	10.0	8.91		ug/L		89	68 - 129	3	30
1,1-Dichloroethene	1.0	U	10.0	8.16		ug/L		82	74 - 135	0	30
1,2-Dichloropropane	1.0	U	10.0	9.05		ug/L		91	78 - 115	1	30
Ethylbenzene	1.0	U	10.0	9.76		ug/L		98	75 - 116	6	30
2-Hexanone	10	U	20.0	16.2		ug/L		81	47 - 139	2	30

TestAmerica Canton

QC Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-23650-35 MSD

Matrix: Water

Analysis Batch: 84430

Client Sample ID: MW-44
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Isopropylbenzene	1.0	U	10.0	9.10		ug/L		91	68 - 116	3	30	
Methylene Chloride	1.0	U	10.0	7.68		ug/L		77	63 - 128	8	30	
4-Methyl-2-pentanone (MIBK)	10	U	20.0	16.4		ug/L		82	56 - 131	2	30	
Methyl tert-butyl ether	1.0	U	10.0	8.57		ug/L		86	46 - 144	1	30	
m-Xylene & p-Xylene	2.0		20.0	19.5		ug/L		98	75 - 117	4	30	
n-Hexane	1.0	U	10.0	8.17		ug/L		82	54 - 138	4	30	
o-Xylene	1.0		10.0	9.26		ug/L		93	76 - 116	0	30	
Styrene	1.0	U	10.0	9.52		ug/L		95	71 - 117	0	30	
1,1,2,2-Tetrachloroethane	1.0	U	10.0	8.19		ug/L		82	63 - 122	5	30	
Tetrachloroethene	0.73	J	10.0	11.9		ug/L		111	70 - 117	8	30	
Toluene	1.0	U	10.0	9.79		ug/L		98	78 - 114	6	30	
trans-1,2-Dichloroethene	1.7		10.0	11.6		ug/L		99	80 - 119	1	30	
trans-1,3-Dichloropropene	1.0	U	10.0	8.95		ug/L		90	46 - 116	4	30	
1,2,4-Trichlorobenzene	1.0	U	10.0	8.68		ug/L		87	38 - 138	4	30	
1,1,1-Trichloroethane	0.76	J	10.0	10.6		ug/L		98	68 - 121	3	30	
1,1,2-Trichloroethane	1.0	U	10.0	9.84		ug/L		98	75 - 115	1	30	
Trichloroethene	17		10.0	26.7		ug/L		102	66 - 120	0	30	
Trichlorofluoromethane	1.0	U	10.0	5.91		ug/L		59	46 - 157	2	30	
Vinyl chloride	0.49	J	10.0	6.49		ug/L		60	49 - 130	5	30	
Xylenes, Total	2.0	U	30.0	28.8		ug/L		96	76 - 116	3	30	

MSD MSD

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		66 - 117
Dibromofluoromethane (Surr)	92		75 - 121
1,2-Dichloroethane-d4 (Surr)	78		63 - 129
Toluene-d8 (Surr)	94		74 - 115

Lab Sample ID: MB 240-84603/5

Matrix: Water

Analysis Batch: 84603

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	10	U	10	1.1	ug/L			05/03/13 12:02	1
Benzene	1.0	U	1.0	0.13	ug/L			05/03/13 12:02	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			05/03/13 12:02	1
Bromoform	1.0	U	1.0	0.64	ug/L			05/03/13 12:02	1
Bromomethane	1.0	U	1.0	0.41	ug/L			05/03/13 12:02	1
2-Butanone (MEK)	10	U	10	0.57	ug/L			05/03/13 12:02	1
Carbon disulfide	1.0	U	1.0	0.13	ug/L			05/03/13 12:02	1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L			05/03/13 12:02	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			05/03/13 12:02	1
Chloroethane	1.0	U	1.0	0.29	ug/L			05/03/13 12:02	1
Chloroform	1.0	U	1.0	0.16	ug/L			05/03/13 12:02	1
Chloromethane	1.0	U	1.0	0.30	ug/L			05/03/13 12:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			05/03/13 12:02	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L			05/03/13 12:02	1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L			05/03/13 12:02	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L			05/03/13 12:02	1

TestAmerica Canton

QC Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-84603/5

Matrix: Water

Analysis Batch: 84603

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
1,2-Dibromoethane	1.0	U			1.0	0.24	ug/L			05/03/13 12:02	1
1,2-Dichlorobenzene	1.0	U			1.0	0.13	ug/L			05/03/13 12:02	1
1,3-Dichlorobenzene	1.0	U			1.0	0.14	ug/L			05/03/13 12:02	1
1,4-Dichlorobenzene	1.0	U			1.0	0.13	ug/L			05/03/13 12:02	1
Dichlorodifluoromethane	1.0	U			1.0	0.31	ug/L			05/03/13 12:02	1
1,1-Dichloroethane	1.0	U			1.0	0.15	ug/L			05/03/13 12:02	1
1,2-Dichloroethane	1.0	U			1.0	0.22	ug/L			05/03/13 12:02	1
1,1-Dichloroethene	1.0	U			1.0	0.19	ug/L			05/03/13 12:02	1
1,2-Dichloropropane	1.0	U			1.0	0.18	ug/L			05/03/13 12:02	1
Ethylbenzene	1.0	U			1.0	0.17	ug/L			05/03/13 12:02	1
2-Hexanone	10	U			10	0.41	ug/L			05/03/13 12:02	1
Isopropylbenzene	1.0	U			1.0	0.13	ug/L			05/03/13 12:02	1
Methylene Chloride	1.0	U			1.0	0.33	ug/L			05/03/13 12:02	1
4-Methyl-2-pentanone (MIBK)	10	U			10	0.32	ug/L			05/03/13 12:02	1
Methyl tert-butyl ether	1.0	U			1.0	0.17	ug/L			05/03/13 12:02	1
n-Hexane	1.0	U			1.0	0.26	ug/L			05/03/13 12:02	1
Styrene	1.0	U			1.0	0.11	ug/L			05/03/13 12:02	1
1,1,2,2-Tetrachloroethane	1.0	U			1.0	0.18	ug/L			05/03/13 12:02	1
Tetrachloroethene	1.0	U			1.0	0.29	ug/L			05/03/13 12:02	1
Toluene	1.0	U			1.0	0.13	ug/L			05/03/13 12:02	1
trans-1,2-Dichloroethene	1.0	U			1.0	0.19	ug/L			05/03/13 12:02	1
trans-1,3-Dichloropropene	1.0	U			1.0	0.19	ug/L			05/03/13 12:02	1
1,2,4-Trichlorobenzene	1.0	U			1.0	0.15	ug/L			05/03/13 12:02	1
1,1,1-Trichloroethane	1.0	U			1.0	0.22	ug/L			05/03/13 12:02	1
1,1,2-Trichloroethane	1.0	U			1.0	0.27	ug/L			05/03/13 12:02	1
Trichloroethene	1.0	U			1.0	0.17	ug/L			05/03/13 12:02	1
Trichlorofluoromethane	1.0	U			1.0	0.21	ug/L			05/03/13 12:02	1
Vinyl chloride	1.0	U			1.0	0.22	ug/L			05/03/13 12:02	1
Xylenes, Total	2.0	U			2.0	0.28	ug/L			05/03/13 12:02	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		66 - 117			1
Dibromofluoromethane (Surr)	93		75 - 121			1
1,2-Dichloroethane-d4 (Surr)	81		63 - 129			1
Toluene-d8 (Surr)	91		74 - 115			1

Lab Sample ID: LCS 240-84603/4

Matrix: Water

Analysis Batch: 84603

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS			Unit	D	%Rec	Limits
		Result	Qualifier	Unit				
Acetone	20.0	16.6		ug/L		83	43 - 136	
Benzene	10.0	9.67		ug/L		97	83 - 112	
Bromodichloromethane	10.0	9.88		ug/L		99	72 - 121	
Bromoform	10.0	10.8		ug/L		108	40 - 131	
Bromomethane	10.0	5.02		ug/L		50	11 - 185	
2-Butanone (MEK)	20.0	17.1		ug/L		85	60 - 126	
Carbon disulfide	10.0	7.54		ug/L		75	62 - 142	

TestAmerica Canton

QC Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-84603/4

Matrix: Water

Analysis Batch: 84603

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike	LCS		Unit	D	%Rec	Limits
	Added	Result	Qualifier				
Carbon tetrachloride	10.0	10.2		ug/L		102	66 - 128
Chlorobenzene	10.0	9.75		ug/L		98	85 - 110
Chloroethane	10.0	6.18		ug/L		62	25 - 153
Chloroform	10.0	9.62		ug/L		96	79 - 117
Chloromethane	10.0	6.43		ug/L		64	44 - 126
cis-1,2-Dichloroethene	10.0	9.88		ug/L		99	80 - 113
cis-1,3-Dichloropropene	10.0	9.13		ug/L		91	61 - 115
Dibromochloromethane	10.0	9.88		ug/L		99	64 - 119
1,2-Dibromo-3-Chloropropane	10.0	8.51		ug/L		85	42 - 136
1,2-Dibromoethane	10.0	9.78		ug/L		98	79 - 113
1,2-Dichlorobenzene	10.0	9.56		ug/L		96	81 - 110
1,3-Dichlorobenzene	10.0	9.78		ug/L		98	80 - 110
1,4-Dichlorobenzene	10.0	9.52		ug/L		95	82 - 110
Dichlorodifluoromethane	10.0	4.09		ug/L		41	19 - 129
1,1-Dichloroethane	10.0	9.21		ug/L		92	82 - 115
1,2-Dichloroethane	10.0	9.25		ug/L		93	71 - 127
1,1-Dichloroethene	10.0	7.83		ug/L		78	78 - 131
1,2-Dichloropropene	10.0	9.21		ug/L		92	81 - 115
Ethylbenzene	10.0	9.69		ug/L		97	83 - 112
2-Hexanone	20.0	16.2		ug/L		81	55 - 133
Isopropylbenzene	10.0	9.25		ug/L		93	75 - 114
Methylene Chloride	10.0	8.59		ug/L		86	66 - 131
4-Methyl-2-pentanone (MIBK)	20.0	15.9		ug/L		79	63 - 128
Methyl tert-butyl ether	10.0	9.13		ug/L		91	52 - 144
m-Xylene & p-Xylene	20.0	19.1		ug/L		95	83 - 113
n-Hexane	10.0	8.42		ug/L		84	66 - 137
o-Xylene	10.0	9.53		ug/L		95	83 - 113
Styrene	10.0	9.98		ug/L		100	79 - 114
1,1,2,2-Tetrachloroethane	10.0	7.40		ug/L		74	68 - 118
Tetrachloroethene	10.0	11.2		ug/L		112	79 - 114
Toluene	10.0	9.91		ug/L		99	84 - 111
trans-1,2-Dichloroethene	10.0	9.84		ug/L		98	83 - 117
trans-1,3-Dichloropropene	10.0	9.48		ug/L		95	58 - 117
1,2,4-Trichlorobenzene	10.0	7.96		ug/L		80	48 - 135
1,1,1-Trichloroethane	10.0	10.1		ug/L		101	74 - 118
1,1,2-Trichloroethane	10.0	10.1		ug/L		101	80 - 112
Trichloroethene	10.0	11.0		ug/L		110	76 - 117
Trichlorofluoromethane	10.0	5.82		ug/L		58	49 - 157
Vinyl chloride	10.0	6.15		ug/L		62	53 - 127
Xylenes, Total	30.0	28.6		ug/L		95	83 - 112

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	94		66 - 117
Dibromofluoromethane (Surr)	96		75 - 121
1,2-Dichloroethane-d4 (Surr)	81		63 - 129
Toluene-d8 (Surr)	94		74 - 115

TestAmerica Canton

QC Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-23650-36 MS

Matrix: Water

Analysis Batch: 84603

Client Sample ID: MW-5

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Acetone	1.1	J	20.0	10.6		ug/L	53	33 - 145	
Benzene	1.0	U	10.0	9.50		ug/L	95	72 - 121	
Bromodichloromethane	1.0	U	10.0	9.38		ug/L	94	67 - 120	
Bromoform	1.0	U	10.0	9.99		ug/L	100	32 - 128	
Bromomethane	1.0	U	10.0	4.73		ug/L	47	10 - 186	
2-Butanone (MEK)	10	U	20.0	13.7		ug/L	68	54 - 129	
Carbon disulfide	1.0	U	10.0	7.90		ug/L	79	57 - 147	
Carbon tetrachloride	1.0	U	10.0	9.87		ug/L	99	59 - 129	
Chlorobenzene	1.0	U	10.0	9.46		ug/L	95	80 - 110	
Chloroethane	1.0	U	10.0	6.03		ug/L	60	21 - 165	
Chloroform	1.0	U	10.0	9.49		ug/L	95	76 - 118	
Chloromethane	1.0	U	10.0	6.42		ug/L	64	33 - 132	
cis-1,2-Dichloroethene	2.9		10.0	12.3		ug/L	94	70 - 120	
cis-1,3-Dichloropropene	1.0	U	10.0	8.42		ug/L	84	51 - 110	
Dibromochloromethane	1.0	U	10.0	9.54		ug/L	95	56 - 118	
1,2-Dibromo-3-Chloropropane	2.0	U	10.0	8.25		ug/L	83	32 - 139	
1,2-Dibromoethane	1.0	U	10.0	9.53		ug/L	95	74 - 113	
1,2-Dichlorobenzene	1.0	U	10.0	8.98		ug/L	90	75 - 111	
1,3-Dichlorobenzene	1.0	U	10.0	9.17		ug/L	92	73 - 110	
1,4-Dichlorobenzene	1.0	U	10.0	8.79		ug/L	88	75 - 110	
Dichlorodifluoromethane	1.0	U	10.0	4.12		ug/L	41	17 - 128	
1,1-Dichloroethane	4.0		10.0	12.9		ug/L	89	79 - 116	
1,2-Dichloroethane	1.0	U	10.0	8.98		ug/L	90	68 - 129	
1,1-Dichloroethene	0.48	J	10.0	9.15		ug/L	87	74 - 135	
1,2-Dichloropropene	1.0	U	10.0	8.94		ug/L	89	78 - 115	
Ethylbenzene	1.0	U	10.0	9.29		ug/L	93	75 - 116	
2-Hexanone	10	U	20.0	16.6		ug/L	83	47 - 139	
Isopropylbenzene	1.0	U	10.0	8.94		ug/L	89	68 - 116	
Methylene Chloride	1.0	U	10.0	9.33		ug/L	93	63 - 128	
4-Methyl-2-pentanone (MIBK)	10	U	20.0	15.9		ug/L	79	56 - 131	
Methyl tert-butyl ether	1.0	U	10.0	7.94		ug/L	79	46 - 144	
m-Xylene & p-Xylene	2.0		20.0	19.2		ug/L	96	75 - 117	
n-Hexane	1.0	U	10.0	8.46		ug/L	85	54 - 138	
o-Xylene	1.0		10.0	9.62		ug/L	96	76 - 116	
Styrene	1.0	U	10.0	9.59		ug/L	96	71 - 117	
1,1,2,2-Tetrachloroethane	1.0	U	10.0	8.80		ug/L	88	63 - 122	
Tetrachloroethene	3.3		10.0	13.7		ug/L	103	70 - 117	
Toluene	1.0	U	10.0	9.22		ug/L	92	78 - 114	
trans-1,2-Dichloroethene	1.0	U	10.0	9.98		ug/L	100	80 - 119	
trans-1,3-Dichloropropene	1.0	U	10.0	8.54		ug/L	85	46 - 116	
1,2,4-Trichlorobenzene	1.0	U	10.0	7.13		ug/L	71	38 - 138	
1,1,1-Trichloroethane	4.9		10.0	14.6		ug/L	97	68 - 121	
1,1,2-Trichloroethane	1.0	U	10.0	9.24		ug/L	92	75 - 115	
Trichloroethene	20		10.0	28.6		ug/L	89	66 - 120	
Trichlorofluoromethane	1.0	U	10.0	7.24		ug/L	72	46 - 157	
Vinyl chloride	1.0	U	10.0	6.65		ug/L	66	49 - 130	
Xylenes, Total	2.0	U	30.0	28.8		ug/L	96	76 - 116	

TestAmerica Canton

QC Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-23650-36 MS

Matrix: Water

Analysis Batch: 84603

Client Sample ID: MW-5
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		66 - 117
Dibromofluoromethane (Surr)	92		75 - 121
1,2-Dichloroethane-d4 (Surr)	76		63 - 129
Toluene-d8 (Surr)	92		74 - 115

Lab Sample ID: 240-23650-36 MSD

Matrix: Water

Analysis Batch: 84603

Client Sample ID: MW-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acetone	1.1	J	20.0	9.31	J	ug/L	47	33 - 145	13	30	
Benzene	1.0	U	10.0	9.57		ug/L	96	72 - 121	1	30	
Bromodichloromethane	1.0	U	10.0	9.63		ug/L	96	67 - 120	3	30	
Bromoform	1.0	U	10.0	10.1		ug/L	101	32 - 128	1	30	
Bromomethane	1.0	U	10.0	4.67		ug/L	47	10 - 186	1	30	
2-Butanone (MEK)	10	U	20.0	13.8		ug/L	69	54 - 129	1	30	
Carbon disulfide	1.0	U	10.0	7.56		ug/L	76	57 - 147	4	30	
Carbon tetrachloride	1.0	U	10.0	9.87		ug/L	99	59 - 129	0	30	
Chlorobenzene	1.0	U	10.0	9.66		ug/L	97	80 - 110	2	30	
Chloroethane	1.0	U	10.0	5.90		ug/L	59	21 - 165	2	30	
Chloroform	1.0	U	10.0	9.48		ug/L	95	76 - 118	0	30	
Chloromethane	1.0	U	10.0	7.56		ug/L	76	33 - 132	16	30	
cis-1,2-Dichloroethene	2.9		10.0	12.6		ug/L	97	70 - 120	2	30	
cis-1,3-Dichloropropene	1.0	U	10.0	8.56		ug/L	86	51 - 110	2	30	
Dibromochloromethane	1.0	U	10.0	9.21		ug/L	92	56 - 118	4	30	
1,2-Dibromo-3-Chloropropane	2.0	U	10.0	8.27		ug/L	83	32 - 139	0	30	
1,2-Dibromoethane	1.0	U	10.0	9.00		ug/L	90	74 - 113	6	30	
1,2-Dichlorobenzene	1.0	U	10.0	9.31		ug/L	93	75 - 111	4	30	
1,3-Dichlorobenzene	1.0	U	10.0	9.29		ug/L	93	73 - 110	1	30	
1,4-Dichlorobenzene	1.0	U	10.0	9.01		ug/L	90	75 - 110	2	30	
Dichlorodifluoromethane	1.0	U	10.0	4.19		ug/L	42	17 - 128	2	30	
1,1-Dichloroethane	4.0		10.0	13.1		ug/L	92	79 - 116	2	30	
1,2-Dichloroethane	1.0	U	10.0	8.91		ug/L	89	68 - 129	1	30	
1,1-Dichloroethene	0.48	J	10.0	8.76		ug/L	83	74 - 135	4	30	
1,2-Dichloropropane	1.0	U	10.0	9.23		ug/L	92	78 - 115	3	30	
Ethylbenzene	1.0	U	10.0	9.83		ug/L	98	75 - 116	6	30	
2-Hexanone	10	U	20.0	16.3		ug/L	82	47 - 139	2	30	
Isopropylbenzene	1.0	U	10.0	9.38		ug/L	94	68 - 116	5	30	
Methylene Chloride	1.0	U	10.0	8.38		ug/L	84	63 - 128	11	30	
4-Methyl-2-pentanone (MIBK)	10	U	20.0	16.3		ug/L	81	56 - 131	2	30	
Methyl tert-butyl ether	1.0	U	10.0	8.07		ug/L	81	46 - 144	2	30	
m-Xylene & p-Xylene	2.0		20.0	20.0		ug/L	100	75 - 117	4	30	
n-Hexane	1.0	U	10.0	8.44		ug/L	84	54 - 138	0	30	
o-Xylene	1.0		10.0	9.68		ug/L	97	76 - 116	1	30	
Styrene	1.0	U	10.0	10.0		ug/L	100	71 - 117	5	30	
1,1,2,2-Tetrachloroethane	1.0	U	10.0	8.71		ug/L	87	63 - 122	1	30	
Tetrachloroethene	3.3		10.0	14.4		ug/L	110	70 - 117	5	30	
Toluene	1.0	U	10.0	9.55		ug/L	95	78 - 114	4	30	

TestAmerica Canton

QC Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-23650-36 MSD

Matrix: Water

Analysis Batch: 84603

Client Sample ID: MW-5
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
trans-1,2-Dichloroethene	1.0	U	10.0	9.91		ug/L		99	80 - 119	1	30
trans-1,3-Dichloropropene	1.0	U	10.0	8.44		ug/L		84	46 - 116	1	30
1,2,4-Trichlorobenzene	1.0	U	10.0	7.12		ug/L		71	38 - 138	0	30
1,1,1-Trichloroethane	4.9		10.0	14.7		ug/L		98	68 - 121	1	30
1,1,2-Trichloroethane	1.0	U	10.0	9.34		ug/L		93	75 - 115	1	30
Trichloroethene	20		10.0	30.5		ug/L		108	66 - 120	6	30
Trichlorofluoromethane	1.0	U	10.0	6.82		ug/L		68	46 - 157	6	30
Vinyl chloride	1.0	U	10.0	6.60		ug/L		66	49 - 130	1	30
Xylenes, Total	2.0	U	30.0	29.7		ug/L		99	76 - 116	3	30
MSD MSD											
Surrogate	%Recovery	Qualifier		Limits							
4-Bromofluorobenzene (Surr)	89			66 - 117							
Dibromofluoromethane (Surr)	91			75 - 121							
1,2-Dichloroethane-d4 (Surr)	84			63 - 129							
Toluene-d8 (Surr)	92			74 - 115							

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-83983/12-A

Matrix: Water

Analysis Batch: 84395

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 83983

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
	Result	Qualifier									
Acenaphthene	0.20	U	0.20	0.10	ug/L		04/29/13 11:39	05/02/13 09:08	1		
Acenaphthylene	0.20	U	0.20	0.10	ug/L		04/29/13 11:39	05/02/13 09:08	1		
Anthracene	0.20	U	0.20	0.10	ug/L		04/29/13 11:39	05/02/13 09:08	1		
Benzo[a]anthracene	0.20	U	0.20	0.10	ug/L		04/29/13 11:39	05/02/13 09:08	1		
Benzo[a]pyrene	0.20	U	0.20	0.10	ug/L		04/29/13 11:39	05/02/13 09:08	1		
Benzo[b]fluoranthene	0.20	U	0.20	0.10	ug/L		04/29/13 11:39	05/02/13 09:08	1		
Benzo[g,h,i]perylene	0.20	U	0.20	0.10	ug/L		04/29/13 11:39	05/02/13 09:08	1		
Benzo[k]fluoranthene	0.20	U	0.20	0.10	ug/L		04/29/13 11:39	05/02/13 09:08	1		
Chrysene	0.20	U	0.20	0.10	ug/L		04/29/13 11:39	05/02/13 09:08	1		
Dibenz(a,h)anthracene	0.20	U	0.20	0.10	ug/L		04/29/13 11:39	05/02/13 09:08	1		
Fluoranthene	0.20	U	0.20	0.10	ug/L		04/29/13 11:39	05/02/13 09:08	1		
Fluorene	0.20	U	0.20	0.10	ug/L		04/29/13 11:39	05/02/13 09:08	1		
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.10	ug/L		04/29/13 11:39	05/02/13 09:08	1		
2-Methylnaphthalene	0.20	U	0.20	0.10	ug/L		04/29/13 11:39	05/02/13 09:08	1		
Naphthalene	0.20	U	0.20	0.10	ug/L		04/29/13 11:39	05/02/13 09:08	1		
Phenanthrene	0.20	U	0.20	0.10	ug/L		04/29/13 11:39	05/02/13 09:08	1		
Pyrene	0.20	U	0.20	0.10	ug/L		04/29/13 11:39	05/02/13 09:08	1		
MB MB											
Surrogate	%Recovery	Qualifier		Limits							
2-Fluorobiphenyl (Surr)	53			20 - 110							
2-Fluorophenol (Surr)	53			10 - 110							
Nitrobenzene-d5 (Surr)	55			21 - 110							
Phenol-d5 (Surr)	54			21 - 110							
Terphenyl-d14 (Surr)	43			24 - 110							

TestAmerica Canton

QC Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-83983/12-A

Matrix: Water

Analysis Batch: 84395

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 83983

Surrogate	MB	MB	%Recovery	Qualifier	Limits
2,4,6-Tribromophenol (Surr)			54		21 - 110

Prepared 04/29/13 11:39 Analyzed 05/02/13 09:08 Dil Fac 1

Lab Sample ID: LCS 240-83983/13-A

Matrix: Water

Analysis Batch: 84395

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 83983

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
Acenaphthene	20.0	16.5		ug/L		83	47 - 110
Acenaphthylene	20.0	17.2		ug/L		86	49 - 110
Anthracene	20.0	17.1		ug/L		85	52 - 110
Benzo[a]anthracene	20.0	16.1		ug/L		81	52 - 110
Benzo[a]pyrene	20.0	13.3		ug/L		66	44 - 110
Benzo[b]fluoranthene	20.0	14.1		ug/L		70	48 - 110
Benzo[g,h,i]perylene	20.0	14.2		ug/L		71	50 - 110
Benzo[k]fluoranthene	20.0	15.5		ug/L		77	49 - 110
Chrysene	20.0	17.1		ug/L		85	55 - 110
Dibenz(a,h)anthracene	20.0	13.6		ug/L		68	49 - 110
Fluoranthene	20.0	17.6		ug/L		88	54 - 110
Fluorene	20.0	17.5		ug/L		87	52 - 110
Indeno[1,2,3-cd]pyrene	20.0	13.2		ug/L		66	50 - 110
2-Methylnaphthalene	20.0	15.5		ug/L		77	45 - 110
Naphthalene	20.0	15.9		ug/L		80	44 - 110
Phenanthrene	20.0	16.6		ug/L		83	53 - 110
Pyrene	20.0	16.5		ug/L		82	52 - 110

Surrogate	LCS	LCS	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	76				20 - 110
2-Fluorophenol (Surr)	75				10 - 110
Nitrobenzene-d5 (Surr)	76				21 - 110
Phenol-d5 (Surr)	75				21 - 110
Terphenyl-d14 (Surr)	54				24 - 110
2,4,6-Tribromophenol (Surr)	81				21 - 110

TestAmerica Canton

QC Association Summary

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

GC/MS VOA

Analysis Batch: 84108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-23650-1	CDFMW-1	Total/NA	Water	8260B	5
240-23650-1 MS	CDFMW-1	Total/NA	Water	8260B	5
240-23650-1 MSD	CDFMW-1	Total/NA	Water	8260B	5
240-23650-2	CDFMW-2	Total/NA	Water	8260B	6
240-23650-3	CDFMW-19	Total/NA	Water	8260B	7
240-23650-4	CDFMW-3	Total/NA	Water	8260B	7
240-23650-5	CDFMW-18	Total/NA	Water	8260B	8
240-23650-6	CDFMW-4	Total/NA	Water	8260B	8
240-23650-7	MW-36	Total/NA	Water	8260B	9
240-23650-8	CDFMW-14	Total/NA	Water	8260B	9
240-23650-9	MW-36D	Total/NA	Water	8260B	10
240-23650-10	CDFMW-9	Total/NA	Water	8260B	10
240-23650-11	MW-6	Total/NA	Water	8260B	11
240-23650-12	MW-29	Total/NA	Water	8260B	11
240-23650-13	MW-33	Total/NA	Water	8260B	12
240-23650-14	CDFMW-22	Total/NA	Water	8260B	12
240-23650-15	CDFMW-10	Total/NA	Water	8260B	13
240-23650-16	CDFMW-16	Total/NA	Water	8260B	13
LCS 240-84108/3	Lab Control Sample	Total/NA	Water	8260B	14
MB 240-84108/5	Method Blank	Total/NA	Water	8260B	14

Analysis Batch: 84430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-23650-17	CDFMW-11	Total/NA	Water	8260B	
240-23650-18	CDFMW-23	Total/NA	Water	8260B	
240-23650-19	CDFMW-21	Total/NA	Water	8260B	
240-23650-20	CDFMW-7	Total/NA	Water	8260B	
240-23650-21	CDFMW-21D	Total/NA	Water	8260B	
240-23650-22	FW-9	Total/NA	Water	8260B	
240-23650-23	MW-19	Total/NA	Water	8260B	
240-23650-24	MW-45	Total/NA	Water	8260B	
240-23650-25	MW-43	Total/NA	Water	8260B	
240-23650-26	MW-35	Total/NA	Water	8260B	
240-23650-27	CDFMW-20	Total/NA	Water	8260B	
240-23650-28	MW-14	Total/NA	Water	8260B	
240-23650-29	MW-23	Total/NA	Water	8260B	
240-23650-30	MW-22	Total/NA	Water	8260B	
240-23650-31	MW-38	Total/NA	Water	8260B	
240-23650-32	MW-13	Total/NA	Water	8260B	
240-23650-33	MW-34	Total/NA	Water	8260B	
240-23650-34	CDFMW-12	Total/NA	Water	8260B	
240-23650-35	MW-44	Total/NA	Water	8260B	
240-23650-35 MS	MW-44	Total/NA	Water	8260B	
240-23650-35 MSD	MW-44	Total/NA	Water	8260B	
240-23650-41	TRIP BLANK	Total/NA	Water	8260B	
LCS 240-84430/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-84430/5	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 84603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-23650-36	MW-5	Total/NA	Water	8260B	

TestAmerica Canton

QC Association Summary

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

GC/MS VOA (Continued)

Analysis Batch: 84603 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-23650-36 MS	MW-5	Total/NA	Water	8260B	
240-23650-36 MSD	MW-5	Total/NA	Water	8260B	
240-23650-37	MW-5D	Total/NA	Water	8260B	
240-23650-38	AMBIENT	Total/NA	Water	8260B	
240-23650-39	EB1-OEPA	Total/NA	Water	8260B	
240-23650-40	EB2-IE	Total/NA	Water	8260B	
LCS 240-84603/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-84603/5	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 83983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-23650-14	CDFMW-22	Total/NA	Water	3520C	
240-23650-15	CDFMW-10	Total/NA	Water	3520C	
240-23650-17	CDFMW-11	Total/NA	Water	3520C	
240-23650-20	CDFMW-7	Total/NA	Water	3520C	
LCS 240-83983/13-A	Lab Control Sample	Total/NA	Water	3520C	
MB 240-83983/12-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 84395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-23650-14	CDFMW-22	Total/NA	Water	8270C	
240-23650-15	CDFMW-10	Total/NA	Water	8270C	
240-23650-17	CDFMW-11	Total/NA	Water	8270C	
240-23650-20	CDFMW-7	Total/NA	Water	8270C	
LCS 240-83983/13-A	Lab Control Sample	Total/NA	Water	8270C	
MB 240-83983/12-A	Method Blank	Total/NA	Water	8270C	

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Lab Chronicle

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-1

Date Collected: 04/22/13 13:55
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84108	04/30/13 13:44	RQ	TAL CAN

Client Sample ID: CDFMW-2

Date Collected: 04/22/13 11:55
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84108	04/30/13 14:06	RQ	TAL CAN

Client Sample ID: CDFMW-19

Date Collected: 04/22/13 13:50
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84108	04/30/13 14:28	RQ	TAL CAN

Client Sample ID: CDFMW-3

Date Collected: 04/22/13 16:00
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84108	04/30/13 14:49	RQ	TAL CAN

Client Sample ID: CDFMW-18

Date Collected: 04/22/13 15:00
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84108	04/30/13 15:10	RQ	TAL CAN

Client Sample ID: CDFMW-4

Date Collected: 04/22/13 15:05
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84108	04/30/13 15:32	RQ	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-36

Date Collected: 04/22/13 18:00
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84108	04/30/13 15:54	RQ	TAL CAN

Client Sample ID: CDFMW-14

Date Collected: 04/22/13 16:15
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84108	04/30/13 16:16	RQ	TAL CAN

Client Sample ID: MW-36D

Date Collected: 04/22/13 18:00
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84108	04/30/13 16:37	RQ	TAL CAN

Client Sample ID: CDFMW-9

Date Collected: 04/22/13 17:20
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84108	04/30/13 16:58	RQ	TAL CAN

Client Sample ID: MW-6

Date Collected: 04/23/13 10:00
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84108	04/30/13 17:20	RQ	TAL CAN

Client Sample ID: MW-29

Date Collected: 04/23/13 09:40
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84108	04/30/13 17:42	RQ	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-33

Date Collected: 04/22/13 18:25
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84108	04/30/13 18:04	RQ	TAL CAN

Client Sample ID: CDFMW-22

Date Collected: 04/23/13 10:55
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84108	04/30/13 18:26	RQ	TAL CAN
Total/NA	Prep	3520C			83983	04/29/13 11:39	BM	TAL CAN
Total/NA	Analysis	8270C		1	84395	05/02/13 16:28	TH	TAL CAN

Client Sample ID: CDFMW-10

Date Collected: 04/23/13 11:10
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84108	04/30/13 18:47	RQ	TAL CAN
Total/NA	Prep	3520C			83983	04/29/13 11:39	BM	TAL CAN
Total/NA	Analysis	8270C		1	84395	05/02/13 16:50	TH	TAL CAN

Client Sample ID: CDFMW-16

Date Collected: 04/23/13 15:50
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84108	04/30/13 19:08	RQ	TAL CAN

Client Sample ID: CDFMW-11

Date Collected: 04/23/13 14:15
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84430	05/02/13 12:09	LE	TAL CAN
Total/NA	Prep	3520C			83983	04/29/13 11:39	BM	TAL CAN
Total/NA	Analysis	8270C		50	84395	05/02/13 17:34	TH	TAL CAN

Client Sample ID: CDFMW-23

Date Collected: 04/23/13 12:30
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84430	05/02/13 12:32	LE	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-21

Date Collected: 04/23/13 15:15
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84430	05/02/13 12:55	LE	TAL CAN

Client Sample ID: CDFMW-7

Date Collected: 04/23/13 12:25
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-20

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84430	05/02/13 13:40	LE	TAL CAN
Total/NA	Prep	3520C			83983	04/29/13 11:39	BM	TAL CAN
Total/NA	Analysis	8270C		1	84395	05/02/13 17:12	TH	TAL CAN

Client Sample ID: CDFMW-21D

Date Collected: 04/23/13 15:15
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-21

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84430	05/02/13 14:03	LE	TAL CAN

Client Sample ID: FW-9

Date Collected: 04/24/13 15:40
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-22

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84430	05/02/13 14:25	LE	TAL CAN

Client Sample ID: MW-19

Date Collected: 04/24/13 12:40
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-23

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	84430	05/02/13 14:48	LE	TAL CAN

Client Sample ID: MW-45

Date Collected: 04/24/13 11:05
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-24

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84430	05/02/13 15:11	LE	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-43

Date Collected: 04/24/13 09:45
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-25

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84430	05/02/13 15:33	LE	TAL CAN

Client Sample ID: MW-35

Date Collected: 04/23/13 17:50
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-26

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84430	05/02/13 15:56	LE	TAL CAN

Client Sample ID: CDFMW-20

Date Collected: 04/23/13 16:40
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-27

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84430	05/02/13 16:19	LE	TAL CAN

Client Sample ID: MW-14

Date Collected: 04/24/13 12:30
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-28

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84430	05/02/13 16:42	LE	TAL CAN

Client Sample ID: MW-23

Date Collected: 04/25/13 09:30
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-29

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84430	05/02/13 17:05	LE	TAL CAN

Client Sample ID: MW-22

Date Collected: 04/25/13 09:35
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-30

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84430	05/02/13 17:27	LE	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-38

Date Collected: 04/24/13 15:30
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-31

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84430	05/02/13 17:50	LE	TAL CAN

Client Sample ID: MW-13

Date Collected: 04/24/13 17:35
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-32

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84430	05/02/13 18:13	LE	TAL CAN

Client Sample ID: MW-34

Date Collected: 04/23/13 18:10
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-33

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84430	05/02/13 18:36	LE	TAL CAN

Client Sample ID: CDFMW-12

Date Collected: 04/23/13 16:40
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-34

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84430	05/02/13 18:58	LE	TAL CAN

Client Sample ID: MW-44

Date Collected: 04/24/13 10:05
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-35

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84430	05/02/13 19:21	LE	TAL CAN

Client Sample ID: MW-5

Date Collected: 04/24/13 11:15
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-36

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84603	05/03/13 12:24	LE	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-5D

Date Collected: 04/24/13 11:15
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-37

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84603	05/03/13 12:47	LE	TAL CAN

Client Sample ID: AMBIENT

Date Collected: 04/24/13 10:00
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-38

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84603	05/03/13 13:10	LE	TAL CAN

Client Sample ID: EB1-OEPA

Date Collected: 04/24/13 09:30
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-39

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84603	05/03/13 13:32	LE	TAL CAN

Client Sample ID: EB2-IE

Date Collected: 04/24/13 09:50
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-40

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84603	05/03/13 13:55	LE	TAL CAN

Client Sample ID: TRIP BLANK

Date Collected: 04/22/13 00:00
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-41

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84430	05/02/13 13:17	LE	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TestAmerica Canton

Certification Summary

Client: Ohio EPA CO

Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-13
Connecticut	State Program	1	PH-0590	12-31-13
Florida	NELAP	4	E87225	06-30-13
Georgia	State Program	4	N/A	06-30-13
Illinois	NELAP	5	200004	07-31-13
Kansas	NELAP	7	E-10336	01-31-14
Kentucky	State Program	4	58	06-30-13
L-A-B	DoD ELAP		L2315	07-28-13
Minnesota	NELAP	5	039-999-348	12-31-13
Nevada	State Program	9	OH-000482008A	07-31-13
New Jersey	NELAP	2	OH001	06-30-13
New York	NELAP	2	10975	04-01-14
Ohio VAP	State Program	5	CL0024	01-19-14
Pennsylvania	NELAP	3	68-00340	08-31-13
Texas	NELAP	6		08-03-13
USDA	Federal		P330-11-00328	08-26-14
Virginia	NELAP	3	460175	09-14-13
Washington	State Program	10	C971	01-12-14
West Virginia DEP	State Program	3	210	12-31-13
Wisconsin	State Program	5	999518190	08-31-13

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Chain of Custody Record

TestAmerica Laboratory location:

Preliminary program.

Migrant Contact

Chain of Custody Record

TAL-4142 (0408)

Client: Ohio EPA-DERR-SITU

Address:

4675 Hamer Ohio Lane

City:

Groveport OH 43225

State:

43125

Zip Code:

Project Name and Location (State):

White Engine, Ohio

Contract/Purchase Order/Quote No.:

Project Manager	Victoria Siger		Date	4/25/13	Chain of Custody Number	015057	
Telephone Number (Area Code)	Fax Number	Lab Number	—	Page	2	of	4
Site Contact	Lab Contact	Analysis (Attach list if more space is needed)					
Carmer/Waybill Number	Victoria Siger						
Drop-off	Dose/Phl						

*Special Instructions/
Conditions of Receipt*

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix	Containers & Preservatives			
				Uptubes	H2SO4	HNO3	HCl
MW-6	4/23/13	1600	B	✓			✓
MW-29	4/23/13	0840		✓		3	3
MW-33	4/22/13	1825		✓		3	✓
MW-37	CDF MW-22	4/22/13	1855	✓		3	✓
CDF MW-10	4/23/13	1110		✓		3	✓
CDF MW-16	4/23/13	1550		✓		3	✓
CDF MW-17	4/23/13	1445		✓		3	✓
CDF MW-23	4/23/13	1230		✓		3	✓
CDF MW-24	4/23/13	1515		✓		3	✓
CDF MW-7	4/23/13	1225		✓		3	✓
CDF MW-21D	4/23/13	1515		✓		3	✓
FW-9	4/24/13	1540		-		3	✓

Possible Hazard Identification

Non-Hazard

Flammable

Skin Irritant

Poison A

Unknown

Poison B

Sample Disposal

Return To Client

Disposal By Lab

Archive For

Months

(A fee may be assessed if samples are retained longer than 1 month)

QC Requirements (Specify)

18296 PAT Only VAP / 82100 VAP + CDF MW-11 ci/l water

7. Received By

4/25/13

2. Received By

4/25/13

1. Received By

4/25/13

3. Received By

4/25/13

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

TestAmerica Laboratory location:

Regulatory program:

 DW NPDES RCRA Other UAP

Client Contact		Site Contact:		Lab Contact:		COC No.:	
Company Name: Ohio EPA - DEPE-SIFY	Client Project Manager: Victoria Sigler	Site Contact: Same	Telephone: -	Lab Contact: Denise Dohi	Telephone: 330 467 9396	COC No.:	56252
Address: 4075 Homer Ohio Lane	Telephone: 614 836 8157	Email: anreport.oh 43125	Analyst Turnaround Time: TAT if different from below _____ 3 weeks	Analyses		For Lab-use only <input type="checkbox"/> Walk-in client <input type="checkbox"/> Job pickup <input type="checkbox"/> Lab sampling	<input type="checkbox"/> Job/SDG No. _____
City/State/Zip: 614 836 8157	Method of Shipment/CARRIER: White Engine	Shipping/Tracking No: -	Other: <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day	Container & Preservatives:		Sample Specific Notes / Special Instructions:	
P O #:				H2SO4	HNO3	NaOH	ZnAcetate/NaOH
				NaOH	HCl	Other:	Other:
				Sodium	Acetone		
				Solid	Air		
				Sample Date	Sample Time		
Sample Identification							
MW-19	4/24/13	1240	✓	3		G ✓	
MW-45	4/24/13	1165	✓	3		G ✓	
MW-43	4/24/13	6945	✓	3		G ✓	
MW-35	4/23/13	1750	✓	3		G ✓	
C&F MW-20	4/23/13	1640	✓	3		G ✓	
MW-14	4/24/13	1230	✓	3		G ✓	
MW-23	4/25/13	0930	✓	3		G ✓	
MW-22	4/25/13	0935	✓	3		G ✓	
MW-9 MW-38	4/25/13	1520	✓	3		G ✓	
MW-38	4/24/13	1530	✓	3		G ✓	
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input checked="" type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison A	<input type="checkbox"/> Unknown	<input type="checkbox"/> Return to Client	<input checked="" type="checkbox"/> Disposal By Lab	Months _____
Special Instructions/QC Requirements & Comments:							
Relinquished by:		Company: UETI		Date/Time: 4/25/13 1100	Received by: Denise Dohi	Company: TestAmerica	Date/Time: 4/25/13 1600
Relinquished by:		Company: UETI		Date/Time:	Received by:	Company: TestAmerica	Date/Time:
UAP Certified Data Package							

Chain of Custody Record

TestAmerica Laboratory location: CantonRegulatory program: DW NPDES RCRA Other VAP

Client Contact		Site Contact:		Lab Contact:		TestAmerica Laboratories, Inc.	
Company Name:	<u>Ohio EPA - DER - SJFU</u>	Client Project Manager:	<u>Victoria Sigler</u>	Telephone:	<u>same</u>	Telephone:	<u>Denise Phhl</u>
Address:	<u>4675 Homer Ohio Lane</u>	Telephone:	<u>(614)834-8757</u>	Email:	<u>victoria.sigler@epa.gov</u>	Telephone:	<u>330-497-9396</u>
City/State/Zip:	<u>Groveport, OH 43125</u>	Method of Shipment/Carrier:	<u>Dropoff</u>	Shipping/Tracking No.:	<u>—</u>	For lab use only	<input type="checkbox"/> If of <u>4</u> COCs
Phone:	<u>614 834 8757</u>	TAT if different from below _____	<input checked="" type="checkbox"/> 3 weeks	<input type="checkbox"/> 2 weeks	<input type="checkbox"/> 1 week	<input type="checkbox"/> 2 days	<input type="checkbox"/> 1 day
Project Name:	<u>White Engine</u>	Compliance Sample/C/GWP/C					
Project Number:	<u>—</u>	Different Sample/C/GWP/C					
P O #		Sample Specific Notes / Special Instructions:					
Sample Identification		Sample Date	Sample/Time	Matrix		Containers & Preservatives	
				HCl	NaOH	ZnAc ₂	NaOH
				H ₂ SO ₄	Other:	Uptakes	Others:
				Solid	Sediment	Aqueous	Aqueous
MW-13	4/24/13	1235	/	/	/	3	3
MW-34	4/23/13	1810	/	/	/	3	3
CDF MW-12	4/23/13	1040	/	/	/	3	3
MW-44	4/24/13	1085	/	/	/	3	3
MW-5	4/24/13	1115	/	/	/	3	3
MW-5.D	4/24/13	1115	/	/	/	3	3
Ambient	4/24/13	1000	/	/	/	3	3
EBI - SEP4	4/24/13	0930	/	/	/	3	3
EZ EB2-IE	4/24/13	0950	/	/	/	3	3
TRIP Blank			/	/	/	3	3
Possible Hazard Identification		<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input checked="" type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison B	<input type="checkbox"/> Unknown	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Special Instructions/QC Requirements & Comments:		<u>VAP Certified data package</u>					
Relinquished by:	Company:	Date/Type:	Received by:	Comments:	Date/Time:	Company:	Date/Time:
Reinquired by:	Company:	Date/Time:	Received by:	Comments:	Date/Time:	Company:	Date/Time:
Reinquired by:	Company:	Date/Time:	Received in Laboratory by:	Comments:	Date/Time:	Company:	Date/Time:



TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 231450

Client <u>Ohio EPA-DERR-SIFY</u>	Site Name _____	Cooler unpacked by: <u>Alfred Stein</u>
Cooler Received on <u>4-25-13</u>	Opened on <u>4-25-13</u>	
FedEx: 1 st Grd Exp UPS FAS Stetson	Client Drop Off	TestAmerica Courier Other _____
TestAmerica Cooler # _____	Foam Box Client Cooler	Box Other _____
Packing material used: <u>Bubble Wrap</u> Foam Plastic Bag	None	Other _____
COOLANT: <u>Wet Ice</u> Blue Ice Dry Ice Water	None	
1. Cooler temperature upon receipt		
IR GUN# 1 (CF -0 °C) Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C	See Multiple Cooler Form
IR GUN# 4G (CF +1 °C) Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C	
IR GUN# 5G (CF +1 °C) Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C	
IR GUN# 8 (CF +1 °C) Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C	
2. Were custody seals on the outside of the cooler(s)? If Yes Quantity <u>0</u>		
-Were custody seals on the outside of the cooler(s) signed & dated?	Yes <u>No</u>	
-Were custody seals on the bottle(s)?	Yes <u>No</u>	
3. Shippers' packing slip attached to the cooler(s)?	Yes <u>No</u>	
4. Did custody papers accompany the sample(s)?	Yes <u>No</u>	
5. Were the custody papers relinquished & signed in the appropriate place?	Yes <u>No</u>	
6. Did all bottles arrive in good condition (Unbroken)?	Yes <u>No</u>	
7. Could all bottle labels be reconciled with the COC?	Yes <u>No</u>	
8. Were correct bottle(s) used for the test(s) indicated?	Yes <u>No</u>	
9. Sufficient quantity received to perform indicated analyses?	Yes <u>No</u>	
10. Were sample(s) at the correct pH upon receipt?	Yes <u>No</u> NA pH Strip Lot# <u>HC379740</u>	
11. Were VOAs on the COC?	Yes <u>No</u>	
12. Were air bubbles >6 mm in any VOA vials?	Yes <u>No</u> NA	
13. Was a trip blank present in the cooler(s)?	Yes <u>No</u>	
Contacted PM _____ Date _____ by _____	via Verbal Voice Mail Other	
Concerning _____		

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: RJ

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
 Time preserved: _____ Preservative(s) added/Lot number(s): _____

**TestAmerica Multiple Cooler Receipt Form/Narrative
Canton Facility**

Login #: 23650